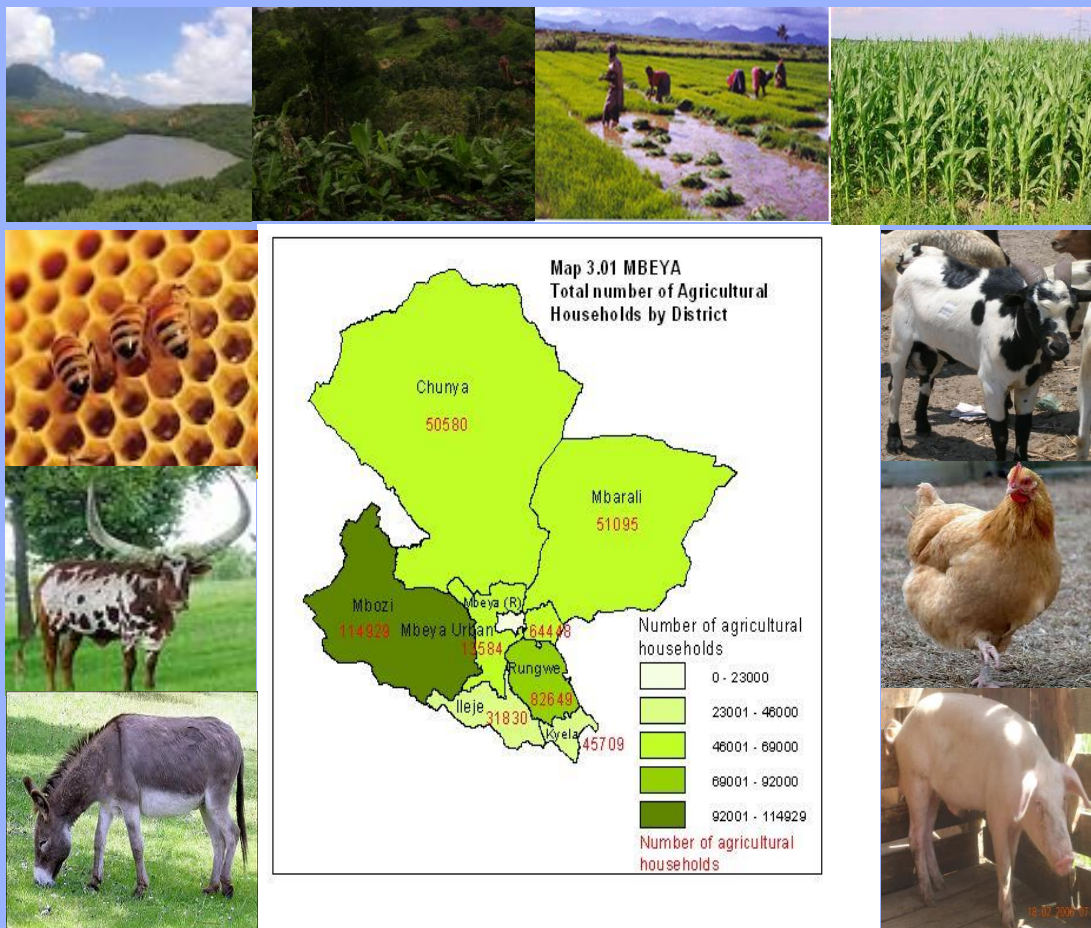


United Republic of Tanzania

NATIONAL SAMPLE CENSUS OF AGRICULTURE 2007/2008

VOLUME VI : REGIONAL REPORT: **MBEYA REGION**



Ministry of Agriculture, Food Security and Cooperatives; Ministry of Livestock Development and Fisheries; Ministry of Water and Irrigation; Ministry of Agriculture, Livestock and Natural Resource, Zanzibar; Prime Minister's Office, Regional Administration and Local Governments; Ministry of Industries, Trade and Marketing; The National Bureau of Statistics and the Office of the Chief Government Statistician, Zanzibar

SEPTEMBER, 2012



United Republic of Tanzania

NATIONAL SAMPLE CENSUS OF AGRICULTURE

2007/2008

Volume VI : REGIONAL REPORT

MBEYA REGION

Ministry of Agriculture, Food Security and Cooperatives; Ministry of Livestock Development and Fisheries;
Ministry of Water and Irrigation; Ministry of Agriculture, Livestock and Natural Resource, Zanzibar; Prime
Minister's Office, Regional Administration and Local Governments; Ministry of Industries, Trade and Marketing;
The National Bureau of Statistics and the Office of the Chief Government Statistician, Zanzibar

SEPTEMBER, 2012

TABLE OF CONTENT

ACRONYMS AND ABBREVIATIONS	v
PREFACE.....	vii
ILLUSTRATION.....	ix
EXECUTIVE SUMMARY	xvi
1 BACKGROUND INFORMATION	1
1.1 Introduction.....	1
1.2 Geographical Location and Boundaries.....	1
1.3 Land Area.....	1
1.4 Climate.....	1
1.4.1 Temperature.....	1
1.4.2 Rainfall	1
1.5 Administrative Setup	1
1.6 Population	2
1.7 Socio - Economic Indicators.....	2
2 INTRODUCTION	3
2.1 The Rationale for Conducting the National Sample Census of Agriculture.....	3
2.2 Census Objectives.....	4
2.3 Census Scope and Coverage.....	4
2.4 Census Methodology	5
2.4.1 Census Organization.....	6
2.4.2 Tabulation Plan Preparation	7
2.4.3 Sample Design.....	7
2.4.4 Questionnaire Design and Other Census Instruments.....	8
2.4.5 Field Pilot-Testing of the Census Instruments	8
2.4.6 Training of Trainers, Supervisors and Enumerators.....	9
2.4.7 Information, Education and Communication (IEC) Campaign.....	9
2.4.8 Data Collection	9
2.4.9 Field Supervision and Consistency Checks.....	10

2.4.10	Data Processing	10
2.5	Funding Arrangements.....	12
3	CENSUS RESULTS	13
3.1	Household Characteristics	13
3.1.1	Type of Agriculture Households	13
3.1.2	Livelihood Activities/Source of Income	13
3.1.3	Age and Sex of Heads of Household.....	14
3.1.4	Age and Sex of Households Members	14
3.1.5	Level of Education	15
3.1.6	Off-farm Income.....	20
3.2	Land Use	21
3.2.1	Area of Land Utilized.....	22
3.2.2	Types of Land Use.....	22
3.3	Annual Crop and Vegetable Production	23
3.3.1	Area Planted	23
3.3.2	Analysis of the Most Important Crops	24
3.4	Types of Crops.....	27
3.4.1	Cereal Crop Production	27
3.4.2	Root and Tuber Crop Production	35
3.4.3	Pulse Crops Production	37
3.4.4	Oil Seed Production.....	38
3.4.5	Fruits and Vegetables	41
3.4.6	Other Annual Crop Production.....	44
3.5	Permanent Crops.....	47
3.5.1	Coffee	47
3.5.2	Banana	48
3.5.3	Mangoes	49
3.5.4	Coconut.....	49
3.5.5	Palm Oil.....	49
3.5.6	Tea	49

3.5.7	Oranges.....	50
3.6	Input Use.....	50
3.6.1	Fertilizer Use	50
3.6.2	Use of improved seeds.....	53
3.6.3	Use of Pesticides.....	53
3.7	Irrigation	54
3.7.1	Area Planted with Annual Crops and Under Irrigation	54
3.7.2	Sources of Water Used for Irrigation	54
3.8	Crop Storage and Marketing.....	55
3.8.1	Crop Storage.....	55
3.8.2	Methods of Storage.....	55
3.9	Marketing.....	55
3.9.1	Households Selling Crops	55
3.9.2	Main Crop Marketing Problems.....	55
3.10	Access to Crop Production Services.....	56
3.10.1	Source and Access to Agricultural Credit	56
3.10.2	Crop Extension Services.....	56
3.11	Livestock Result.....	59
3.11.1	Cattle Production	59
3.11.2	Goat Production.....	60
3.11.3	Sheep Production.....	63
3.11.4	Pig Production	64
3.11.5	Chicken Production	64
3.11.6	Improved chicken	65
3.11.7	Pests and Parasites	68
3.12	Fish Farming	68
3.13	Poverty Indicators	70
3.13.1	Household Assets	70
3.13.2	Type of toilet	70
3.13.3	Access to Drinking Water	71

3.13.4	Distance to Source of Drinking Water	71
3.13.5	Food Consumption Pattern	72
3.13.5.1	Number of Meals per Day	72
3.13.5.2	Meat and Fish Consumption Frequency.....	73
3.13.6	Sources of Energy for Cooking	73
3.13.7	Source of Energy by for Lighting.....	73
3.13.8	Roofing Material	74
3.13.9	Sources of Cash Income	74
3.13.10	Food Insecurity	75
4	MBEYA PROFILES.....	79
4.1	Mbeya Urban	79
4.2	Mbeya Rural.....	81
4.3	Chunya	83
4.4	Kyela.....	85
4.5	Rungwe	88
4.6	Ileje	91
4.7	Mbozi	92
4.8	Mbarali.....	93
	APPENDICES	95

ACRONYMS AND ABBREVIATIONS

ASDP	Agricultural Sector Development Programme
CSPro	Census and Survey Processing Program
CSTWG	Censuses and Surveys Technical Working Group
DADIPS	District Agricultural Development and Investment Projects
DADO	District Agricultural Development Officer
DFID	Department for International Development
DIAS	District Integrated Agricultural Survey
DS	District Supervisor
EAS	Expanded Agricultural Survey
EAs	Enumeration Areas
EU	European Union
FE	Field Enumerator
GDP	Gross Domestic Product
GIS	Geographical Information System
ha	Hectares
hh	Household
IAS	Integrated Agricultural Survey
ICR	Intelligent Character Recognition
ID	Identity
IEC	Information, Education and Communication
JICA	Japanese International Cooperation Agency
LRS	Long Rainy Season,
MAFC	Ministry of Agriculture, Food Security and Cooperatives
MITM	Ministry of Industry Trade and Marketing
MLFD	Ministry of Livestock and Fisheries Development
NBS	National Bureau of Statistics
NGO	Non Governmental Organization
NMS	National Master Sample
NSCA	National Sample Census of Agriculture
NSGRP	National Strategy for Growth and Reduction of Poverty (MKUKUTA)
OCGS	Office of Chief Government Statistician Zanzibar
PMO-RALG	Prime Ministers Office, Regional Administration and Local Government
PPS	Probability Proportional to Size

PSU	Primary Sampling Unit
RS	Regional Supervisor
RSM	Regional Statistical Manager
SPSS	Statistical Package for Social Science
SRS	Short Rainy Season
TOT	Training of Trainers
UNDP	United Nations Development Programme
UNFAO	United Nations Food and Agriculture Organization

PREFACE

At the end of the 2007/08 Agricultural Year, the National Bureau of Statistics (NBS) in collaboration with the Ministries of Agriculture, Food Security and Cooperatives, Livestock and Fisheries Development; Water; Industry and Trade; the Prime Minister's Office, Regional Administration and Local Government (PMO/RALG) and the Office of the Chief Government Statistician, (OCGS), Ministries of Agriculture and Natural Resources; Livestock and Fisheries conducted the Agricultural Sample Census. This is the fourth Agricultural Census to be carried out in Tanzania, the first one was conducted in 1971/72, the second in 1993/94 and 1994/95 (during 1993/94 data on household characteristics and livestock count were collected and data on crop area and production in 1994/95) and the third was conducted in 2002/03.

The census collected detailed data on crop production, crop marketing, crop storage, livestock production, fish farming, and poverty indicators. In addition to this, the census was large in its scope and coverage as it provides data that can be disaggregated at district level and thus, allow comparisons with the 2002/03 National Sample Census of Agriculture. The census covered smallholders in rural areas only and large scale farms. This report presents data disaggregated at regional and district level and it focuses on small holders crop production and livestock keeping.

The extensive nature of the census in relation to its scope and coverage is a result of the increasing demand for more detailed information to assist in the proper planning of the agricultural sector and in the administrative decentralization of planning to district level. It is hoped that this report will provide new insights for planners, policy makers, researchers and others involved in the agricultural sector in order to improve the prevailing conditions faced by agricultural households in the country.

On behalf of the Government of Tanzania, I wish to express my appreciation for the financial support provided by the development partners, in particular, the Department for International Development (DFID) and the Japanese Government through the Japan International Cooperation Agency (JICA) and others who contributed through the pooled fund mechanism.

My appreciation also goes to all those who in one-way or the other have contributed to the success of the census. In particular, I would also like to mention the enormous effort made by the Planning Group composed of professionals from the Agriculture Statistics Department of the National Bureau of Statistics, Ministry of Agriculture, Food Security and Cooperatives, Ministry of Livestock Development and Fisheries, Ministry of Water and Irrigation, Ministry

of Agriculture, Livestock and Environment, Zanzibar, the Prime Minister's Office, Regional Administration and Local Government, Ministry of Industries, Trade and Marketing and the Office of the Chief Government Statistician, Zanzibar, the Food and Agriculture Organization of the United Nations and the Censuses and Surveys Technical Working Group (CSTWG).

Finally, I would like to extend my sincere gratitude to all the professionals, the consultants, Regional and District Supervisors and field enumerators for their commendable work. Certainly without their dedication, the census would not have been successful.

Dr. Albina Chuwa

Director General

National Bureau of Statistics

ILLUSTRATION**List of Tables**

Table 2.1: Census Sample.....	8
Table 3.1: Number of Heads of Agricultural Households by Main Activity and District, 2007/08 Agricultural Year	14
Table 3.2: Percent Distribution of Heads of Households by Educational Attainment	20
Table 3.3: Percentage Distribution of Agricultural Household Members Involved in Off farm Income Generating Activities by Number of Members and District.....	21
Table 3.4: Percentage Distribution of Area Planted with Annual Crop by Crop Type	24
Table 3.5: Area, Production and Yield of Cereal Crops by Season and Crop.....	27
Table 3.6: Area Planted with Cereal Crops by Season and District	28
Table 3.7: Area, Production and Yield of Major Roots and Tuber Crops.....	35
Table 3.8: Area Planted with Cereal Crops by Season and District	37
Table 3.9: Area, Production and Yield of Oil Seeds and Oil Nuts Crops.....	38
Table 3.10: Vegetable Production, Yield and Planted Area	42
Table 3.11: Area, Production and Yield of Other Annual Crops.....	44
Table 3.12: Coffee Production Trend	48
Table 3.13: Area Planted with Improved Seeds by District.....	53
Table 3.14: Number of Cattle by Type and District as of 1st October 2008	59
Table 3.15: Number of Goats by Type and District as of 1st October 2008	60
Table 3.16 :Total Number of Pigs by Type of Pig and District as of 1st October 2008.....	64
Table 3.17: Number of Chicken by Type and District as of 1st October 2008	65
Table 3.18: Proportion of Households Owning Assets by District.....	70
Table 3.19: Number of Agricultural Households Reporting Number of Meals the Household Normally has per Day by District, 2007/08 Agricultural Year	72
Table 3.20: Number and Percentage of Household by Source of Energy for Cooking.....	73

Table 3.21: Number and Percentage of Households by Source of Energy for Lighting74

Table 3.22 Number of Households Reporting Status of Food Unsatisfaction by District.....75

List of Charts

3.1	Agricultural Households by Type.....	13
3.2	Percentage Distribution of Agricultural Households by Sex of Household Head	14
3.3	Percentage Distribution of Population by Age and Sex.....	14
3.4	Percentage Distribution of Literacy Rate of Household Members by District...	15
3.5	Literacy Rates of Head of Households by Sex and District.....	19
3.6	Percentage Distribution for Persons Aged 5 Years and Above by Education Status.....	19
3.7	Percentage of Population Aged 5 Years and Above by District and Educational Status.....	19
3.8	Percentage Distribution for Heads of Household by Educational Attainment....	19
3.9	Percentage Distribution of Agricultural Household with Off- farm Income by Number of Members Involved.....	20
3.10	Usable Land per Household, Utilized Area per Household and Percentage of Utilization by District.....	22
3.11	Land Area by Type of Land Use.....	22
3.12	Area Planted with Annual Crops by Season.....	23
3.13	Area Planted with Annual Crops by Season and District.....	23
3.14	Area Planted with Annual Crops per Household by Season and District.....	24
3.15	Planted Area (ha) and Area Planted per Household by Selected Crops.....	24
3.16	Total Area Planted (ha) and Planted Area per Household by District.....	28
3.17	Time Series Data on Maize Production.....	29
3.18	Total Area Planted (ha) and Planted Area per Household by District.....	29
3.19	Time Series Data on Paddy Production.....	29
3.20	Area Planted with Finger Millet, Sorghum, Wheat and Bulrush by District.....	30
3.21	Percent of Irish Potatoes Planted Area and Planted Area per Household by District.....	35

3.22	Yield of Irish Potatoes by District.....	35
3.23	Area Planted and Yield of Sweet Potatoes by District.....	36
3.24	Percent of Cassava Planted Area and Yield of Cassava by District.....	37
3.25	Percent of Bean Planted Area and Yield of Beans by District.....	37
3.26	Time Series Data on Bean Production.....	38
3.27	Time Series Data on Groundnut Production.....	41
3.28	Percent of Groundnut Planted and Yield of Groundnuts (T/ha) by District.....	41
3.29	Percent of Tomato Planted area and Yield of Tomatoes by District.....	42
3.30	Onion Planted Area and Yield of Onion by District.....	43
3.31	Percent of Cabbage Planted Area and Planted Area per Household by District....	43
3.32	Proportion of Area Planted with Permanent Crops by District.....	47
3.34	Coffee Planted Area and Average Area Planted per Household by District.....	47
3.35	Banana Planted Area and Average Area Planted per Household by District.....	48
3.36	Mango Planted Area and Area Planted per Household by District.....	49
3.37	Planted Area with Fertilizers.....	50
3.38	Area Planted With and Without Improved Seeds.....	53
3.39	Planted Area with Pesticides.....	53
3.40	Irrigated Planted Area and Percentage of Irrigated Area to Total Irrigated Land by District.....	54
3.41	Number of Household Using Irrigation by Source of Water.....	54
3.42	Number of Households Received Credits by District.....	56
3.45	Total Number of Goat by District.....	60
3.46	Total Number of Sheep by District.....	63
3.47	Total Number of Pigs by District.....	64
3.48	Total Number of Chicken by District.....	64
3.49	Percentages of Livestock Keeping Households Reporting Tsetseflies and Tick	

Problem by District.....	68
3.50 Percentes of Livestock Keeping Households Reporting Deworming their Livestock by District.....	68
3.51 Number of Households Practicing Fish Farming by District.....	68
3.52 Agricultural Household by Type of Toilet Facility.....	70
3.53 Agricultural Household without Toilet by District.....	71
3.54 Percentage of Households by Main Source of Drinking Water in Dry Season.....	71
3.55 Percent of Agricultural Household by Distance to Source of Water by Season.....	71
3.56 Number of Agricultural Households by Number of Meals per Day.....	72
3.57 Number of Households by Frequency of Meat and Fish Consumption.....	73
3.58 Number of Household by type of Roofing Materials.....	74
3.59 Percentage of Household by Main Source of Cash Income.....	74
3.60 Proportion of Household Reporting Status of Food Unsatisfaction.....	75

List of Maps

3.01 Total Number of Agricultural Household by District.....	16
3.02 Number of Agricultural Households per Sq. Km of Land by District.....	16
3.03 Number of Crop Growing Households by District.....	17
3.04 Percentage of Crop Growing Households by District.....	17
3.05 Number of Crop Growing Households per Sq. Km of Land by District.....	18
3.06 Percent of Crop and Livestock Households by District.....	18
3.07 Utilized Land Area Expressed as a Percent of Available Land.....	26
3.08 Total Planted Area (Annual Crops) by District.....	31
3.09 Area Planted and Percentage of Area Planted During Dry Season by District.....	31
3.10 Area Planted and Percent of Total Land with Cereals by District.....	32

3.11	Planted Area and Yield of Maize by District.....	32
3.12	Area Planted per Maize Growing Household.....	33
3.13	Planted Area and Yield of Paddy by District.....	33
3.14	Area Planted per Paddy Growing Household.....	34
3.15	Planted Area and Yield of Beans by District.....	39
3.16	Planted Area per Beans Growing Household.....	39
3.17	Planted Area and Yield of Sunflower by District.....	40
3.18	Area Planted per Sunflower Growing by Household.....	40
3.19	Planted Area and Yield of Tomatoes by District.....	45
3.20	Area Planted per Tomatoes Growing Household.....	45
3.21	Planted Area and Yield of Cabbage by District.....	46
3.22	Area Planted per Cabbage Growing Household.....	46
3.23	Planted Area and Yield of Coffee by District.....	51
3.24	Planted Area and Yield of Banana by District.....	51
3.25	Area Planted per Banana Growing Household by District.....	52
3.26	Planted Area and Percent of Planted Area with No Application of Fertilizer by District.....	52
3.27	Planted Area and Percent of Total Planted Area with Irrigation by District.....	57
3.28	Number and Percentage of Total Households Selling Crops by District.....	57
3.29	Number of Households and Percentage of Total Households Receiving Crop Extension Services by District.....	58
3.30	Number and Percent of Crop Growing Households Using Improved Seeds.....	58
3.31	Cattle Population by district as of 1 st October 2008.....	61
3.32	Cattle Population Density by District as of 1 st October 2008.....	61
3.33	Goat Population by district as of 1 st October 2008.....	62
3.34	Goat Population Density by District as of 1 st October 2008.....	62
3.35	Sheep Population by District as of 1 st October 2008.....	66

3.36	Sheep Population Density by District as of 1 st October 2008.....	66
3.37	Pig Population by District as of 1 st October 2008.....	67
3.38	Number of Chicken by District as of 1 st October 2008.....	67
3.39	Number and Percentage of Households Infected with Ticks by District.....	69
3.40	Number and Percent of Households without Toilets by District.....	77
3.41	Number and Percent of Households Using Grass/Leaves for Roofing Material by District.....	77
3.42	Number and Percent of Households Eating Meat Once per Week by District.....	78

EXECUTIVE SUMMARY

The executive summary highlights the main survey results obtained during the National Sample Census of Agriculture 2007/08. This report covers small-scale agriculture households in rural areas of Mbeya region who were selected using sampling techniques. The results in the report do not cover urban areas and large-scale farmers.

The highlights describe the important findings in relation to agricultural production, productivity, husbandry, access to resources, levels of involvement in agricultural related activities and poverty indicators in Mbeya region.

i) Household Characteristics

Mbeya region had total of 454,824 agricultural households, out which 247,796 (54.5% of the households in the region) were involved in crops only, 205,570 (45.2%) were involved in crops as well as livestock production, 1,458 (0.3%) were involved in livestock only. Pastoralists were not reported in Mbeya region.

Annual crop farming was ranked by majority (93%) of the agricultural households as the most important activity that provides most of their cash income. The remaining activities such as livestock keeping/herding, government employment and fishing ranked by less than 5 percent of the agricultural households.

Mbeya region had a literacy rate of 76 percent for members of households, with Kyela and Mbeya Urban districts having the highest literacy rate of 83 percent each. This is followed by Ileje (81%), Rungwe (78%), Mbeya Rural (76%). and Mbozi (75%). Mbarali and Chunya districts had the lowest literacy rates of 71 each. The region recorded 73 percent literacy rate for the heads of households with male household heads having higher literacy rate of 82 percent than female household heads who had 47 percent. The district with the highest literacy rate amongst male heads of households was Chunya (88%), followed by Mbozi (84). The lowest percentage was in Mbarali district (76%).

ii) Crop Production**Land Area**

In Mbeya region a total of 862,355 hectares of land were available to agricultural smallholders, out of which 697,737 were utilized. This added up to 80.9 percent utilization of the total land available to smallholders. The average land utilization per agricultural household at regional level was 1.5 hectare which was below the national average estimated at 2.0 hectares. The

district with highest percentage of land utilization was Mbeya Urban (94%) and lowest was Chunya district (61.8%)

Planted Area

The area planted with annual crops and vegetables was 577,018 hectares out of which 52,573 hectares (9%) were planted during short rainy season and 524,445 hectares (91%) during long rainy season. The area planted with annual crops and vegetable increases from 459,229 in 2002/03 ha to 577,018 ha in 2007/08 agricultural year where by area planted during the long rainy season increased from 417,586 hectares to 524,445 hectares (25.6%).

The planted area occupied by cereals during the two seasons was 386,887 ha (67.0% of the total area planted with annuals). This was followed by pulses (90,765 hectares, 16%), oil seeds & oil nuts (66,988 hectares, 12%), roots and tubers (20,549 hectares, 3.6%), cash crops (7,371 hectares, 1.4%) and fruit and vegetables (3,908 hectares, 0.7%),

Maize

Maize dominated the production of cereals in the region, with 401,372 households growing the crop in the region during the long and short rainy season. The total production of maize was 494,810 tonnes from a planted area of 271,402 hectares resulting in a yield of (1.82 t/ha). There was a decrease in the production of maize from 316,000 tonnes in 1994/95 to 218,000 tonnes in 1997/98. However, between 2003 and 2008 maize production increased from 286,000 tonnes to 494,810 tonnes representing an increase of 73%.

Mbozi had the largest area planted with maize (73,970 ha), followed by Chunya 56,571 ha), Mbeya Rural (44,824 ha), Rungwe (31,269 ha), Mbarali (31,109 ha), Ileje (21,337 ha), Mbeya urban (6,249 ha) and the district with the smallest planted area was Kyela (6,022 ha).

Paddy

Paddy was the second most important cereal crop in the region in terms of planted area. The crop was grown by 99,257 households in the long rainy season. This accounted for 23.0 percent of the total households growing annual crops in Mbeya region in the long rainy season. On average each household planted paddy on about 0.8 hectares during the long rainy season. The total production of paddy was 164,065 tonnes from a planted area of 81,267 ha hectares resulting in a yield of 2.02 t/ha.

Cassava

There were 23,966 households that grew cassava in Mbeya region. The total area planted with cassava was 9,274 ha and the production was 13,119 tonnes, with an average yield of 1.4 t/ha. Mbozi had the largest cassava planted area (4,426 ha, 47.7% of total area under cassava), and Mbeya Urban had the lowest planted area (0.01 ha).

Fruit and Vegetables

The total planted area of fruits and vegetables was 3,908 hectares. Tomatoes dominated the production of fruits and vegetables by producing 19,191 tonnes (72.5% of the total fruits and vegetables produced). The production of other fruit and vegetable crops ranged from moderate to small.

Permanent Crops

Coffee dominated the production of permanent crop in Mbeya region with a planted area of 63,293ha (47% of the total area planted with permanent crops), followed by banana (32,459 ha, 24%) and mango (6,040 ha, 4%). Other crops include tea (2%), palm oil (2%), coconut (2%), cashew (1%), sugar cane (1%), orange, pigeon peas and others (17%)

Input Use

Improved Seeds

Of the annual crops planted area in the region only 20% (111,081 ha) was planted with improved seeds while the rest, of the area (457,382 ha, 80%) was planted without using improved seed. Mbozi District had the largest area (45,024 ha, 41%) planted with improved seeds while Kyela had the smallest area (422 ha, 0.4%). However, in terms of proportion Mbeya Urban recorded the highest percentage of area planted with improved seeds while Kyela had the lowest (1% of the planted area) percentage.

Use of Fertilizers

Both inorganic and organic fertilizers were used in agricultural production in Mbeya region. However, the area planted with inorganic fertilizer was larger (131,207, 85% of the total area applied with fertilizer) than the area planted with organic fertilizer (22,848 ha, 15%). Only 38,682 (7%) households in Mbeya region used organic fertilizer. In contrast, 490,170 (93%) households did not use organic fertilizer.

Out of all the districts in the region Ileje District had the largest area planted with organic fertilizer (4,694 ha, 21.54%) while Mbeya Urban had the smallest area (1,105ha).

Irrigation

The area of annual crops under irrigation was 33,418 hectares representing 5.9 percent of the total planted area in the region. The district with the largest planted area under irrigation for annual crops was Mbarali (18,142 ha, 54.3% of the total planted area under irrigation in the region). This was followed by Mbozi (9,022 ha, 27%), Chunya (1,602 ha, 4.79%), Ileje (1,452 ha, 4.3%), Mbeya Rural (1,425 ha, 4.3%), Rungwe (1,097 ha, 3.3%), Kyela (366 ha, 1.1%) and Mbeya urban (312 ha, 0.9%)

Crop Storage

There was a total of 519,454 households that reported to have stored crops in Mbeya region with Rungwe having the largest number of households reporting (147137, 28%), and Mbeya Urban had the smallest number of households reporting (12226, 2%). In all districts, except Rungwe, the largest number of households (546,884) stored their crops using sacks/open drum followed by locally made traditional structures (269,917)

Crop Marketing

A total of 404,512 households out of 528,853 accounting for about 77% (76.49%) households sold their crops. Mbozi District had the largest number (99,606) of households reporting selling crops while the smallest number was recorded in Mbeya Urban (10,528). On the other hand, Mbeya Rural recorded the highest percent of households, which sold crops (89.34%) followed by Mbarali (89.11%), Mbozi (87.10%), Kyela (86.29%), Mbeya Urban (81.34%), Chunya (77.43%), Ileje (72.43%) while Rungwe had the lowest percent of households reporting selling crops.

Agricultural Credit

Agricultural households in Mbeya region accessed credit through different sources. The three most common sources of credit were cooperatives which provided credit to 25.4 percent of the households, followed by savings and credit societies (20.6%) and family, friends or relatives (20.1%). The remaining 33.9% of the households depended on banks, trade, NGO/Development projects and other various sources for credit.

Crop Extension Services

The number of Agricultural households that received crop extension was 354,483, accounting for 78.2 percent of total crop growing households in the region. Rungwe district ranked highest in terms of percentage of household receiving extension advices (93.3%). This was followed by Ileje (86.2%). The district with the lowest percentage was in Mbarali (64.8%).

iii) Livestock and Poultry Production

Cattle

Cattle are the dominant livestock type in the region followed by goats, sheep and pigs. Mbeya region had a total of 870,218 cattle. These were kept by 168,859 households. Most of the households (135,544) kept indigenous cattle (787,912), which accounted for 90.5% of the total cattle population. Besides, 37,660 (8.4%) households kept 72,724 improved dairy cattle while only 3,598 households kept improved beef, which accounted for only 1.1% of the total cattle population.

Goats

A total of 97,831 households kept 544,473 goats. Most of the goats kept in the region were of indigenous breeds accounting for 96% of the goat population while dairy goats constituted only 4%. Mbozi had the largest population of goats (155,509) while Kyela had the smallest population of goats (1,693). In terms of density, Mbeya Rural had the highest density (1,061 per square kilometre) while Kyela recorded the lowest density (27).

Sheep

In Mbeya region sheep production was carried out in all but one district (Kyela). The total number of sheep was 98,222. Mbarali had the largest population of sheep (24,980 sheep), and Mbeya Urban had the smallest number of sheep (792). The distribution of sheep by category shows that she sheep accounted for the highest percentage of the population (48%) followed by ram (32%), male lamb (7%) and castrated sheep (5%).

Pigs

Mbeya region recorded a total of 346,466 pigs reared by 106,494 agricultural households. Distribution of the pig population by district show that Mbozi had the largest population (117,483) and Mbeya Urban had the smallest (8,905). Mbeya Urban District had the highest density of pigs (700 pigs per square kilometre) while Ileje had the lowest density (196)

Chicken

There were 3,574,172 chickens, which were kept by 351,143 agricultural households Mbozi (1,094,809), Rungwe (507,529), and Chunya (485,816) were the three districts with the largest population of chicken while Mbeya Urban had the smallest number of chicken (106,936). Most of the chicken were indigenous (98.5%) followed by layers (1%) and broilers (0.4%).

Fish Farming

Fish farming was practiced in three districts in Mbeya region. They include Mbeya Rural, Rungwe and Mbozi. Mbeya Rural had the largest number of households reporting fish farming (477) followed by Rungwe (408) and Mbozi (284). All fish farmers in the districts used drag out ponds, sourced fingerlings from their neighbours and stocked once in a

iv) Poverty Indicators**Roofing Materials**

On average, about 61% of the households used iron sheets as their roofing material. Another common roofing material used in the region was grass/leaves and was used by about 34% of the households.

Availability of Toilets

The traditional pit latrine was the most common type of toilet and was used by 415,807 (91% of the total agricultural households in the region) households. Improved pit latrines was used by few (23,170 households, 5%) households in the region. Only 1% of the households (6,332) reported to have used flush toilets while about 2% of the households used the bush. However, a small proportion of the households had no toilets with Kyela, Mbozi and Mbarali districts having the largest percentage (each 3%) of the households not having toilet facilities.

Number of Meals per Day

Majority (64%) of the households in the region took two meals per day and 35% of the households took an average of three meals per day. A relatively small proportion (1%) took one meal per day. However, the smallest number of households took one meal per day. Majority of households in all districts except Rungwe and Mbarali districts where the majority of the households reported to have three meals per day, had two meals per day

Household Assets

Most of the rural agricultural households (65.7%) owned at least a radio cassette of music system followed by bicycles (42.6%), pressing iron (27.7%) or mobile phone (27.5%). Other household assets, which were owned by smaller proportions of the households include refrigerator (0.9%), telephone (landline) (0.9%), motor cycle (1.4%) television (2.4%) vehicles (4.2%) and wheelbarrow (5.4%).

Source of Lighting Energy

The wick lamp was the most common source of energy for lighting used by 58% of the households in the region followed by hurricane lamp (34%). Other sources were used by much smaller proportions of the households and these were the pressure lamp (4%) electricity from the main gridline (2%) and solar (1%).

Energy for Cooking

Firewood was the most common source of energy for cooking and was used by about 95 % of the rural agricultural households in the region. The second common source was charcoal (4%) followed by crop residues (1%).

Main Source of Cash Income

The main source of cash income for most of the rural households in the region was the sale of food crops (69%) followed, by a large margin difference, by sale of cash crops (8%) and business (7%). Other relatively minor sources of cash income included sale of livestock, sale of livestock products and cash remittances (2% each) and; wages/salaries and sale of forestry products (each 1%). Other sources were minor used by an average of less than 0.5% of the households in the region.

1 BACKGROUND INFORMATION

1.1 Introduction

This part of the report presents a brief description of the regional profile by providing information on geographical location, land area, climate, administrative set up, population and socio-economic indicators. The information will provide the user with a general understanding of the region and its resources.

1.2 Geographical Location and Boundaries

Mbeya region is located in South West Corner of the Southern Highlands of Tanzania. The region lies between Latitude 7⁰ and 90 - 310 South of Equator, and between Longitudes 320 and 350 East of the Greenwich Meridian. Mbeya region lies at an altitude of 500 meters above sea level with high peaks of 2,981 meters above sea level at Rungwe.

Mbeya region shares borders with Zambia and Malawi to the South, Rukwa Region to the West; Tabora and Singida Regions to the North; and Iringa Region to the East. Tunduma in Mbozi and Kyela districts respectively are the main entries into the neighbouring countries of Zambia and Malawi.

1.3 Land Area

The region has an area of 63,420 square kilometers, which is 6.4% of the total area of Tanzania Mainland. About forty seven percent of the land area is arable.

1.4 Climate

1.4.1 Temperature

Mbeya region lies at an altitude ranging from 500 meters to 2,400 meters above sea level. The temperatures range between 16⁰C in the highlands and 25⁰C in the lowland areas.

1.4.2 Rainfall

Mbeya Region receives abundant and reliable rainfall. Most districts have a uni-modal rainfall pattern. The dry season normally begins in June and ends in December whilst the Wet season runs from January to May. Annual rainfall varies from 650 mm to more than 2,600 mm.

1.5 Administrative Setup

The region comprises eight districts namely Chunya, Mbeya Rural, Kyela, Rungwe, Ileje, Mbozi, Mbarali and Mbeya Urban. The region headquarters is located in Mbeya Municipality.

1.6 Population

Based on the 2002 Population and Housing Census, the population of Mbeya region was 2,070,046. It is among the most populous regions with 6.6% of the Tanzania Mainland Population. In terms of population density Mbeya region is ranked fourth.

1.7 Socio - Economic Indicators

The economy of Mbeya region mainly depends on subsistence agriculture. About 80% of the population depends on agriculture. The region is famous for producing both food and cash crops. The main food crops produced in Mbeya region include: maize, paddy, beans and sorghum, Irish potatoes, and sweet potatoes. The main cash crops include coffee, Pyrethrum and tea. Livestock keeping is also an important economic activity in the region.

2 INTRODUCTION

This section provides technical and operational description of the National Sample Census of Agriculture (NSCA), carried out in the rural areas of Tanzania Mainland and Tanzania Zanzibar during the 2007/08 agricultural year. It details the background and the rationale for carrying out the NSCA in 2007/08 agricultural year. It also explains the sampling procedures, designing and implementation of the data processing system.

This report (Volume VI) is among the 21 regional reports for the Mainland. Other Census reports include the Technical Report (Volume I), Crop Sector Report at National level (Volume II), Livestock Report at National level (Volume III), Large Scale Farms Report (Volume IV), Regional Reports (Volume V series), Zanzibar Livestock Report (Volume VI) and Zanzibar Crop Sector Report (Volume VII). Unlike the 2002/03 Agricultural Sample Census, the 2007/08 Sample Census does not have a separate report for Smallholder Household Characteristics and Access to Natural Resources Report. Other thematic reports will be produced depending on the demand and availability of funds.

This report is divided into five main sections; Background information, Introduction, Results, Mara profiles (Districts) and Appendices. The definitions relating to all aspects of this report can be found in the questionnaire.

2.1 The Rationale for Conducting the National Sample Census of Agriculture

The Government of Tanzania has embarked on various plans geared to eradicate poverty by the year 2025 and Zanzibar by the year 2020. In order to facilitate intervention and monitoring activities of the Poverty Monitoring Master Plan, the government has planned a series of censuses and surveys to assist in policy formulation, planning and to track changes in the wellbeing of the population of Tanzania Mainland and Tanzania Zanzibar. In this Master Plan, A series of Agricultural Surveys have been planned, the first one was undertaken in 2002/03 agricultural year and the second in 2007/08.

Demands for reliable and timely agricultural data have become significantly increasing for monitoring outcomes and progress of the poverty monitoring tools like the Agricultural Sector Development Programme (ASDP) and performance of the respective MDAs (ASLMs).

Following the decentralization of the Government's administration and planning functions, there has been a pressing need for agricultural and rural development data disaggregated at regional and district level. The provision of district level estimates will provide essential baseline information on the state of agriculture that supports decision making by the Local Government Authorities and in the design of District Agricultural Development and Investment Projects (DADIPS). The increase in investment is an essential element in the national strategy for growth and reduction of poverty.

2.2 Census Objectives

The 2007/08 Agricultural Sample Census was designed to meet the data needs of a wide range of users down to the district level including policy makers at local, regional and national levels, rural development agencies, funding institutions, researchers, NGOs, farmers organizations, and the like. The dataset is both extensive in its sample and detailed in its scope and coverage to meet the user demand.

The census was carried out in order to:

- To identify structural changes, in the size of farm household holdings, crop and livestock production, farm inputs and implement use. It also seeks to determine if there are any improvements in the rural infrastructures and the level of agricultural household living conditions.
- Provide benchmark data on productivity, production and agricultural practices in relation to policies and interventions promoted by the Ministry of Agriculture and Food Security and other stakeholders.
- Establish baseline data for the measurement of the impact of high level objectives of the Agricultural Sector Development Programme (ASDP), National Strategy for Growth and Reduction of Poverty and other rural development programmes and projects.

2.3 Census Scope and Coverage.

The 2007/08 Agricultural Sample Census was conducted for both large and small scale farms. The data was collected from a sample of 52,635 small scale agricultural households of which 48,880 were from the Mainland and 4,755 from Zanzibar. To meet National estimates, data was also collected from 1,006 Large Scale Farms (968 on the Mainland and 38 in Zanzibar) on a complete enumeration basis.

Three different questionnaires were used to collect data on agriculture and related aspects. These were:

- Small scale farms questionnaire;
- Community questionnaire; and
- Large scale farm questionnaire.

The small scale farm questionnaire was the main census instrument which included questions related to crop and livestock production and practices; population demographics; access to services, resources and infrastructure; issues on poverty and gender. Main subjects covered during the study include:-

- Household demographics and activities of the household members;

-
- Land access/ownership/tenure and use;
 - Crop and livestock production and productivity;
 - Access to inputs and farming implements;
 - Access and use of credits;
 - Crop marketing, storage;
 - Fish farming;
 - Investment activities: Irrigation structures, water harvesting, erosion control;
 - Off farm income;
 - Household living conditions (housing, sanitary facilities, etc);
 - Livelihood constraints; and
 - Poverty Indicators.

The community level questionnaire was designed to collect village data such as access and use of common resources, community tree plantation and seasonal farm gate prices.

Large Scale Farm questionnaire was administered to all large scale farms either privately or corporately managed. However, the analysis of Large Scale Farms is presented in a separate report (Volume IV).

2.4 Census Methodology

The main focus at all stages of the census execution was on data quality and this has been emphasized all the time. The main activities undertaken include:

- Census organization;
- Tabulation plan preparation;
- Sample design;
- Design of census questionnaire and other instruments;
- Pilot test;
- Training of trainers, supervisors and enumerators;
- Information Education and Communication (IEC) campaign;

-
- Data collection;
 - Field supervision and consistency checks;
 - Data processing:
 - Scanning,
 - Structure formatting application,
 - Batch validation application,
 - Manual data entry application,
 - Tabulation preparation using SPSS.
 - Table formatting and charts using Excel, maps generation using Arc GIS and Excel, Report preparation using Ms Word and Excel.

2.4.1 Census Organization

The census was conducted by the National Bureau of Statistics (NBS) in collaboration with Ministries of Agriculture, Food Security and Cooperatives, Livestock and Fisheries Development; Water; Industry and Trade; and the Prime Minister's Office, Regional Administration and Local Government in Tanzania Mainland. The Office of the Chief Government Statistician (OCGS), Ministries of Agriculture and Natural Resources, Livestock and Fisheries in Tanzania Zanzibar. At the national level, the Census was headed by the Director General of the National Bureau of Statistics, Mainland in collaboration with the Chief Government Statistician, Zanzibar. The planning Group formed by the Director General of NBS and Chief Government Statistician consisted of staff from the Department of Agriculture Statistics of NBS, Department of Economic Statistics of OCGS, Department of Policy and Planning of the Ministry of Agriculture, Food Security and Cooperatives, Department of Policy and Planning of the Ministry of Livestock and Fisheries Development in Tanzania Mainland. Ministry of Livestock and Fisheries and Ministry of Agriculture and Natural Resources in Zanzibar. The Planning Group was responsible for all census operations. Implementation of the census activities at the regional level was overseen by the Regional Statistical Managers of NBS and the Regional Agricultural Supervisor from the Prime Minister's Office, Regional Administration and Local Government. At the district level, the Census activities were managed by two supervisors from the Prime Minister's Office, Regional Administration and Local Government (PMO-RALG). The supervisors managed the enumerators who also came from PMO-RALG. As for Zanzibar, the implementation of the census activities at regional level was

overseen by the Regional Statistical Officers and Regional Agricultural Officers. At District level the implementation of the census activities were managed by District Agricultural Development Officers (DADOs). In addition, there was a national mobile team to supervise the census operations.

The Censuses and Surveys Technical Working Group (CSTWG) under MKUKUTA provided support in sourcing financing, approving budget allocation and monitoring progress of the census. A Technical committee for the census was established with members from key stakeholder organizations and its main function was to approve the proposed instruments and procedures developed by the Planning Group. It also approved the tabulation and analytical reports prepared from the census data.

2.4.2 Tabulation Plan Preparation

The tabulation plan was developed considering the tabulations from previous censuses and surveys to allow trend analysis and comparisons as well as the needs of end users.

2.4.3 Sample Design

The Mainland sample consisted of 3,192 villages. These villages were drawn from the National Master Sample (NMS) developed by the National Bureau of Statistics (NBS) to serve as national framework for the conduct of household based surveys in the country. The National Master Sample was developed from the 2002 Population and Housing Census. The total Mainland sample was 47,880 agricultural households. In Zanzibar, a total of 317 Enumeration Areas (EAs) were selected and 4,755 agricultural households were covered. National wide, all regions and districts were sampled except four urban districts (three from Mainland and one from Zanzibar).

In both Mainland and Zanzibar, a two stage sample was used. The number of villages/Enumeration Areas (EAs) was selected for the first stage with a probability proportional to the number of villages/EAs in each district. In the second stage, 15 households were selected from a list of households in each village/EA using systematic random sampling. Table 1.1 gives the sample size of households, villages and districts for the Mainland and Zanzibar.

Table 2.1: Census Sample

Description	Mainland	Zanzibar	Total
Households	47,880	4,755	52,635
Villages/EA's	3192	317	3,509
Districts	133	9	142
Regions	21	5	26

2.4.4 Questionnaire Design and Other Census Instruments

The questionnaire was designed following users meetings to ensure that the questions asked were in line with the user data needs. Several features were incorporated into the design of the questionnaire to increase the accuracy of the data.

Where feasible, all variables were extensively coded to reduce post enumeration coding error.

The definitions for each section were printed on the opposite page so that the enumerator could easily refer to the instructions whilst interviewing the respondent.

The response to all questions was placed in boxes printed on the questionnaire, with one box per character. This feature made it possible to use scanning and Intelligent Character Recognition (ICR) technologies for data capture.

Skip pattern were used to reduce unnecessary and incorrect coding of sections which do not apply to the respondent.

Each section was clearly numbered, which facilitated the use of skip patterns and provide a reference for data type coding for the programming of CSPPro and SPSS

Three other instruments were used:

- Village Listing Forms were used for listing of households in the village/EA and from this list, a systematic sample of 15 agricultural households were selected.
- A training manual which was used by the trainer for the cascade/pyramid training of supervisors and enumerators.
- Enumerator's Instructions Manual was used as reference material.

2.4.5 Field Pilot-Testing of the Census Instruments

The questionnaire was pilot-tested in four locations (Arusha, Dodoma, Unguja and Pemba). This was done to check the wording, flow and relevance of the questions and to finalize crop lists,

questionnaire coding and manuals. In addition, several data collection methodologies had to be finalized, namely, livestock numbers in pastoral communities, mixed cropping, use of percentages in the questionnaire and finalizing skip patterns and documenting consistency checks.

2.4.6 Training of Trainers, Supervisors and Enumerators

During the training, a cascade/pyramid training techniques were employed to maintain statistical standards. The top level of training was provided to 78 national and regional supervisors (65 from Mainland and 13 from Zanzibar). The trainers were members of the Planning Group from the National Bureau of Statistics, the sector Ministries of Agriculture and Office of the Chief Government Statistician, Zanzibar. In each region, three training sessions were conducted for the district supervisors and enumerators. The training concentrated on questionnaires, listing forms, field level census methodology and definitions. Emphasis was placed on consistency checking in the field. Tests were given to the enumerators and supervisors and the best 50 percent of the trainees were selected for the actual field work. The remaining 50% were assigned the work of listing the households in the villages they belong and they were later terminated. The best trained enumerators were assigned to list the remaining villages. Each enumerator was assigned to enumerate two villages.

2.4.7 Information, Education and Communication (IEC) Campaign

Radios, televisions, newspapers, leaflets, t-shirts and caps were used to create awareness of the Agricultural Sample Census to the public. This strategy helped in sensitizing the public for the field level activities in order to increase the response rate. The t-shirts and caps were given to the field staff and the village chairpersons. The village chairperson assisted to locate the selected households.

2.4.8 Data Collection

Data collection activities for the 2007/08 Agricultural Sample Census lasted for three months from June to August 2009. The interview method was used to collect data during the enumeration. Data collection was monitored by a hierarchical system of supervisors which included the Mobile Response Team, Regional and District Supervisors. The Mobile Response Team headed by the Manager of Agriculture Statistics Department, provided the overall direction to the field operations and responded to queries arising outside the scope of the training exercise. Decisions made on the definitions and procedures were then communicated back to all

the enumerators via the Regional and District Supervisors. On the Mainland, each region had 2 Regional Supervisors (total of 42) and 2 district supervisors per district, (Total 266).

District supervision and enumeration were performed by staff from the Prime Minister's Office, Regional Administration and Local Government and the sector Ministry of Agriculture (PMO-RALG). Regional and national supervision was provided by senior staff from the NBS and sector Ministries of Agriculture. In Zanzibar, the enumeration was conducted by staff from the Ministry of Agriculture and Natural Resources and Ministry of Livestock and Fisheries. Supervision was provided by senior officers of the same Ministries and the Office of the Chief Government Statistician.

During the household listing exercise, 3,192 extension staff participated on the Mainland. A total of 177 enumerators participated during the listing exercise and enumeration using the small holder questionnaire in Zanzibar. A total of 1,596 enumerators were involved in data collection using the small holder questionnaire on the Mainland. Additional five percent of the enumerators were held as reserves in case of drop outs during the enumeration exercise.

2.4.9 Field Supervision and Consistency Checks

Enumerators were trained to probe the respondents until they were satisfied with the responses given before they recorded them in the questionnaire. The first check on the questionnaire was carried out by enumerators in the field during enumeration, followed by District, Regional and National supervisors. Supervisory visits at all levels of supervision focused on checking the completeness of the questionnaires and consistency. Inconsistencies encountered were corrected, and where necessary, a call back to the respondent was made by the enumerator to obtain the correct information. Further quality control checks were made by the district supervisors.

2.4.10 Data Processing

Data processing involved the following process:

- Data entry;
- Data structure formatting;
- Batch validation; and
- Tabulation.

Data Entry

Scanning and ICR data capture technology was used. This did not only increase the speed of data entry but also increased the accuracy due to reduction of keystroke errors. Interactive validation routines were incorporated into the ICR software to trap errors during the verification process.

Prior to scanning, all the questionnaires underwent a manual cleaning exercise by checking that the questionnaire had a full set of pages, correct identification and good hand-writing. A score was given to each questionnaire based on the legibility and the completeness of enumeration. This score was used to assess the quality of enumeration and supervision.

CSPro was used for data entry of the questionnaires that were rejected by the ICR extraction application.

Batch Validation

A batch validation program was developed in CSPro in order to identify inconsistencies within a questionnaire. This was in addition to the interactive validation during the ICR extraction process. The procedures varied from simple range checking within each variable to more complex checking between variables. After data cleaning, the tables were prepared based on a pre-designed tabulation plan.

Tabulation

Statistical Package for Social Sciences (SPSS) was used to produce the census tables and Microsoft Excel was used to organize the tables and compute the additional indicators. Excel was also used to produce charts while Arc GIS was used for generating the maps.

Report Writing

The report writing focused on the regional comparisons, time series and national estimates. Microsoft Excel was used to produce charts; Arc GIS and Excel were used to generate maps, whereas Microsoft Word was used to compile and in the report writing.

Data Quality Control

A great deal of emphasis was placed on data quality throughout the whole exercise, from planning; questionnaire design, training, supervision, data entry, validation and cleaning/editing. As a result of this, it is believed that the census is highly accurate and representative of what was experienced at the field level during the census year. With very few exceptions, the variables in

the questionnaire are within the norms for Tanzania and they follow the expected time series trends when compared to historical data.

2.5 Funding Arrangements

The 2007/08 Agricultural Sample Census was supported mainly by the Department for International Development (DFID) and the Japan International Cooperation Agency (JICA) which together, financed most of the operational activities. Other funds for the operational activities were from the Government of Tanzania. In addition, technical assistance was provided by the Food and Agriculture Organisation (FAO).

3 CENSUS RESULTS

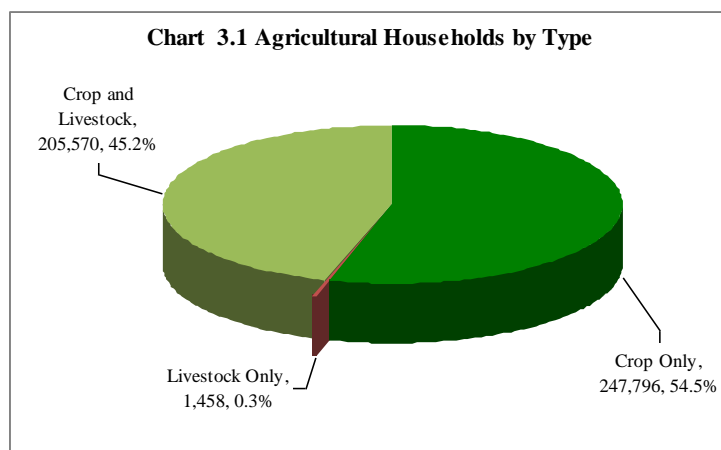
This part of the report presents the results of the census for Mbeya region based on the statistical tables presented in Appendix II. The results are presented in different forms including brief summaries, condensed tables, charts, graphs and maps in order to make it easy for the users to understand. Comparisons are made between related variables and districts. Comparisons is also made with past censuses and surveys results such as the 2002/2003.

The results are divided into four main sections which are household characteristics, crop results, livestock results and Poverty indicators.

3.1 Household Characteristics

3.1.1 Type of Agriculture Households

Mbeya region had total of 454,824 agricultural households, out of which 247,796 (54.5% of the households in the region) were involved in crops only, 205,570 (45.2%) were involved in crops as well as livestock production and 1,458 (0.3%) were involved in livestock only. Pastoralists were not reported in Mbeya region (Map 3.01). The district with the largest number of agriculture households was Mbozi (114,929 households, 25%) followed by Rungwe (82,649, 18%), Mbeya Rural (64,448, 14%), Mbarali (51,095, 11%), Chunya (50,580, 11%), Kyela (45,709, 10%), Ileje (31,830, 7%) and Mbeya Urban (13,584, 3%).



3.1.2 Livelihood Activities/Source of Income

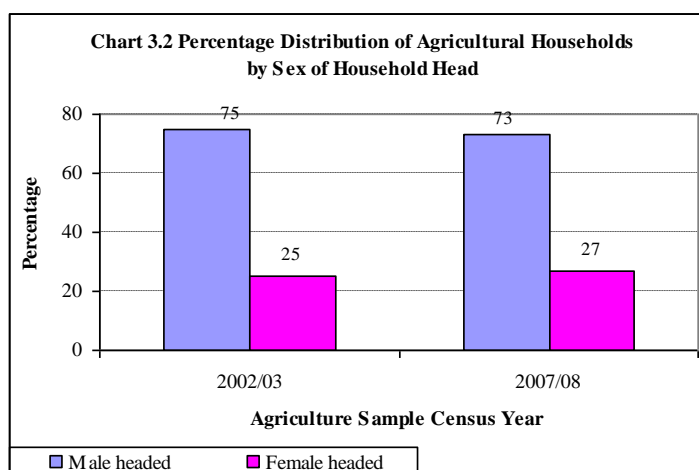
According to the census results, majority (93%) of the agricultural households in Mbeya region ranked annual crop farming as the main activity that provides most of their cash income. The remaining activities such as livestock keeping/herding, employment and fishing ranked by less than 5 percent of the agricultural households, (Table 3.1).

Table 3.1: Number of Heads of Agricultural Households by Main Activity and District, 2007/08 Agricultural Year

District	Crop/Seaweed Farming		Livestock Keeping / Herding		Fishing		Employment		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	46,209	91.4	375	0.7	0	0.0	3,622	7.2	375	0.7	50,580	100
Mbeya (R)	60,151	93.3	159	0.2	0	0.0	1,910	3.0	2,228	3.5	64,448	100
Kyela	41,533	90.9	113	0.2	339	0.7	2,257	4.9	1,467	3.2	45,709	100
Rungwe	77,956	94.3	408	0.5	0	0.0	2,653	3.2	1,633	2.0	82,649	100
Ileje	29,079	91.4	550	1.7	157	0.5	1,572	4.9	472	1.5	31,830	100
Mbozi	109,254	95.1	0	0.0	284	0.2	3,405	3.0	1,986	1.7	114,929	100
Mbarali	49,203	96.3	378	0.7	0	0.0	631	1.2	883	1.7	51,095	100
Mbeya Urban	10,339	76.1	340	2.5	38	0.3	2,566	18.9	302	2.2	13,584	100
Total	423,723	93.2	2,323	0.5	817	0.2	18,615	4.1	9,345	2.1	454,824	100

3.1.3 Age and Sex of Heads of Household

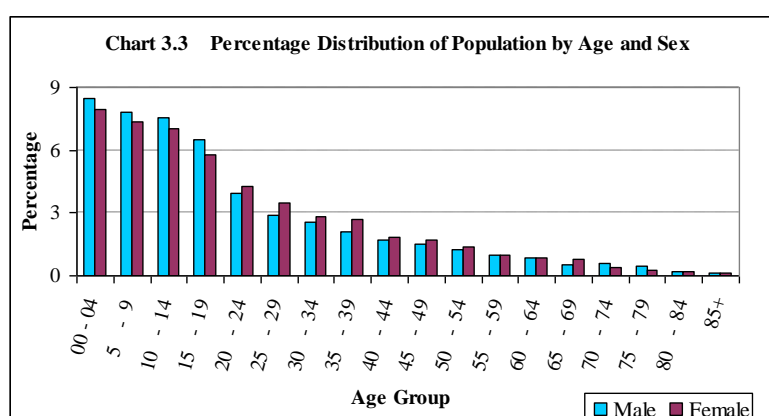
The number of male-headed agricultural households in Mbeya region was 333,897 (73% of the total regional agricultural households) while the female-headed households were 120,927 (27%). Compared to 2002/03 census the percentage of male headed agricultural households has decreased from 75 percent 2002/03 to 73 percent



2007/08. While female headed agricultural households have increased by 2 percent, (Chart 3.2). The mean age of household heads in Mbeya region was 45 years (44 years for male heads and 50 for female heads)

3.1.4 Age and Sex of Households Members

The number of male agricultural household members in Mbeya region was 988,573 (48.6% of the total regional agricultural household members) whilst the female household members were 1,046,017 (51.4% of the total regional agricultural household members). The percentages distribution for



male and female household members for the 2007/08 agriculture census shows that there were more female than male agricultural household members across all the age groups except those aged 70 years and above, and in the age groups between 0 and 19 years. Age group 0-14 constituted 42 percent of the total rural agricultural population and age group 15–64 (active population) accounted for 53 percent of the rural agricultural population (Chart 3.3).

3.1.5 Level of Education

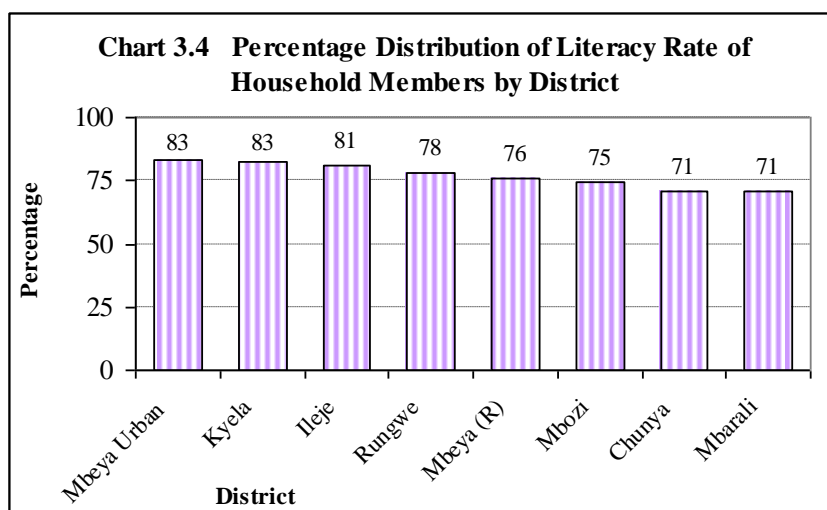
Information on literacy and education attainment was obtained for all persons aged five years and above in all selected households so as to obtain information on the level of education.

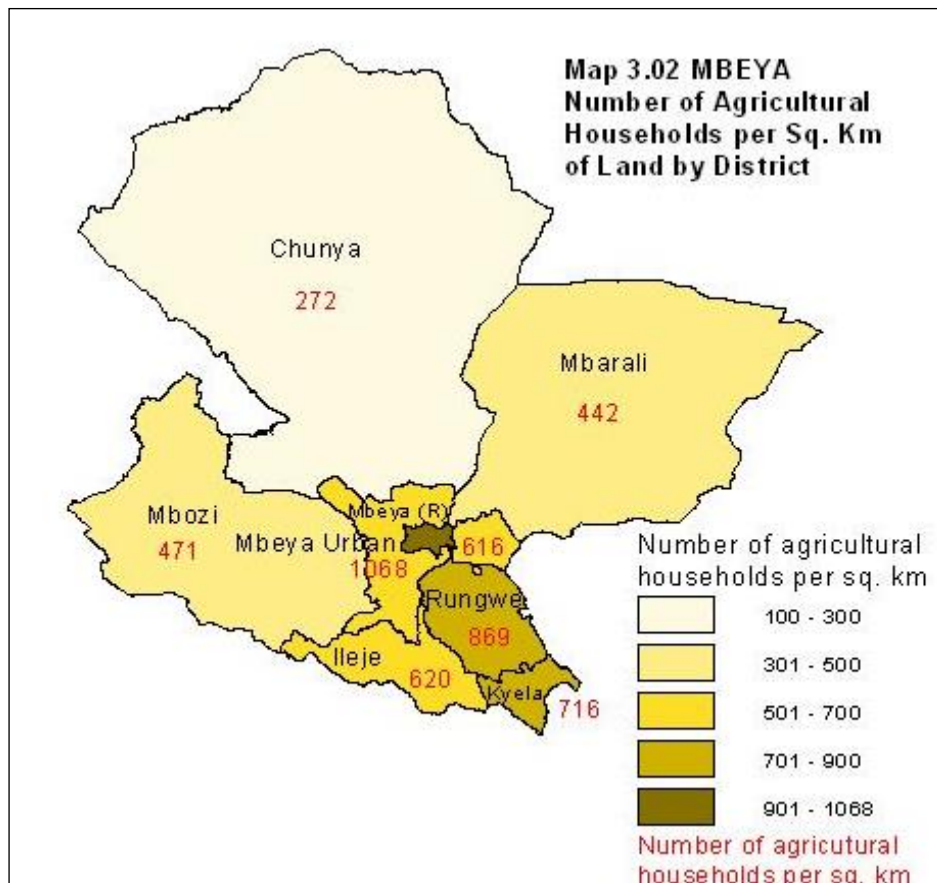
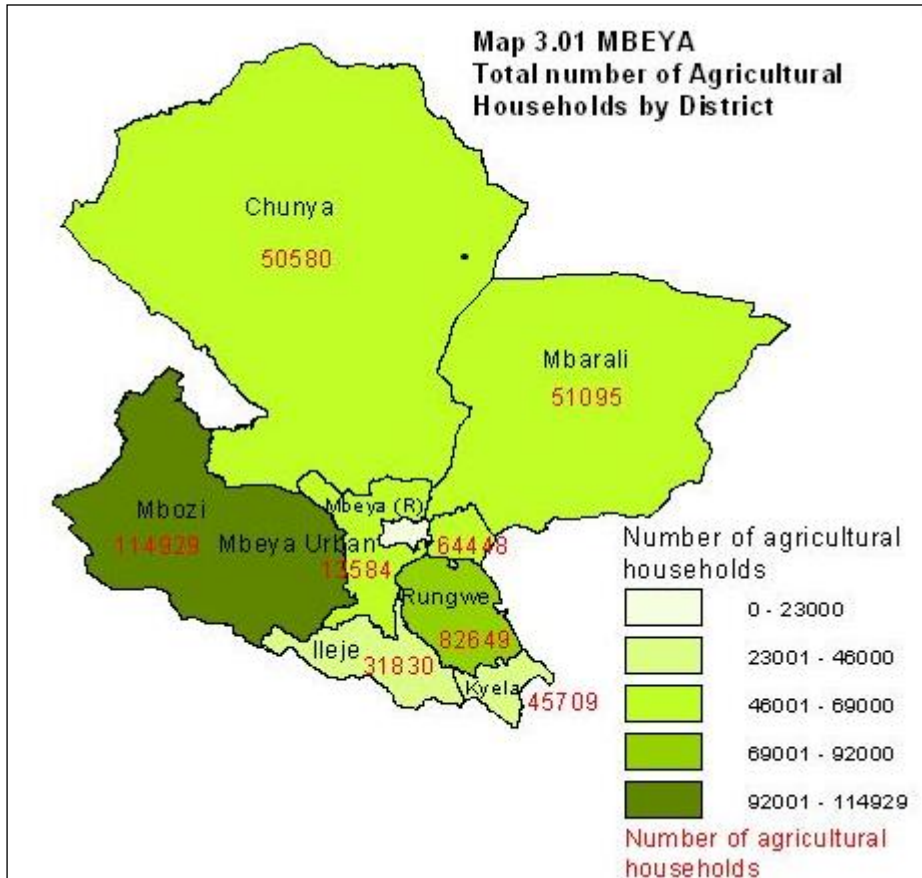
Literacy

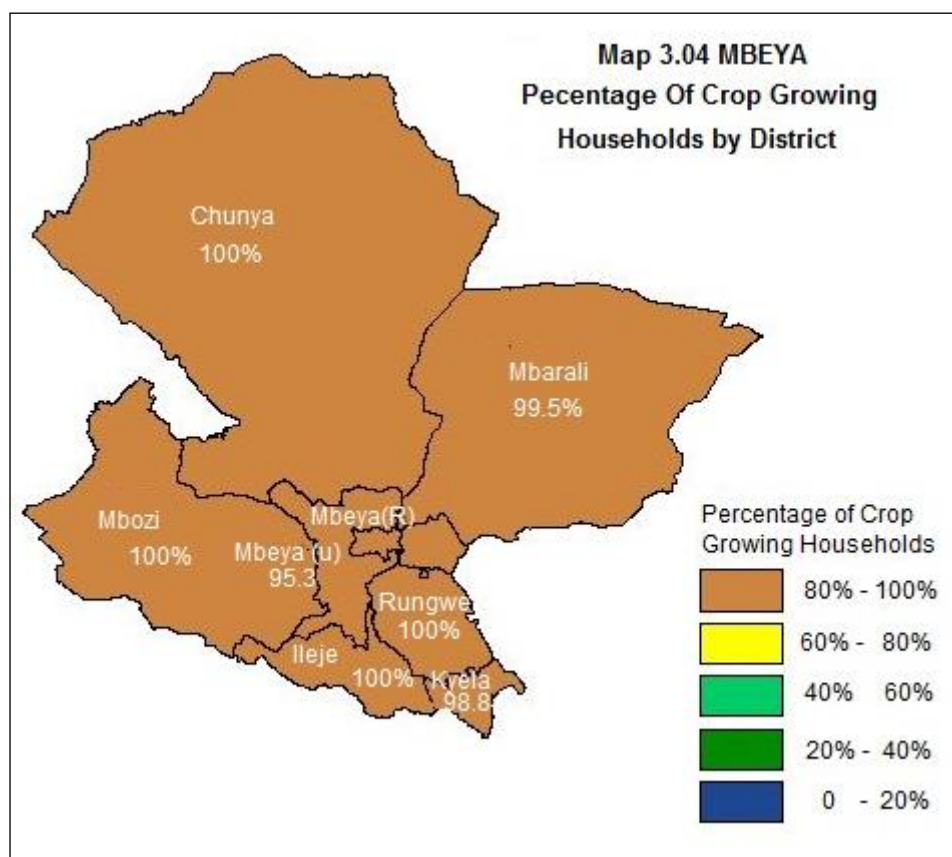
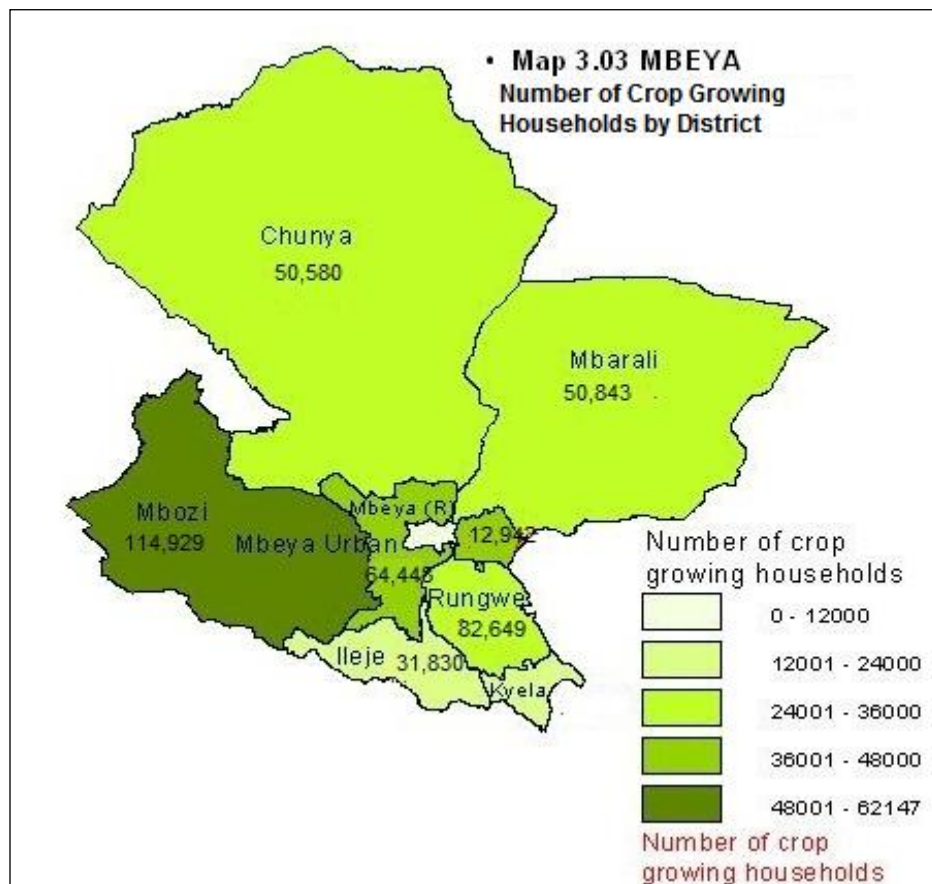
The information on literacy level for family members aged five years and above was obtained by asking individual private households if their respective family members could read and write in Kiswahili only, English only, both English and Swahili or in any other language. Literacy was based on the ability to read and write Swahili, English or both.

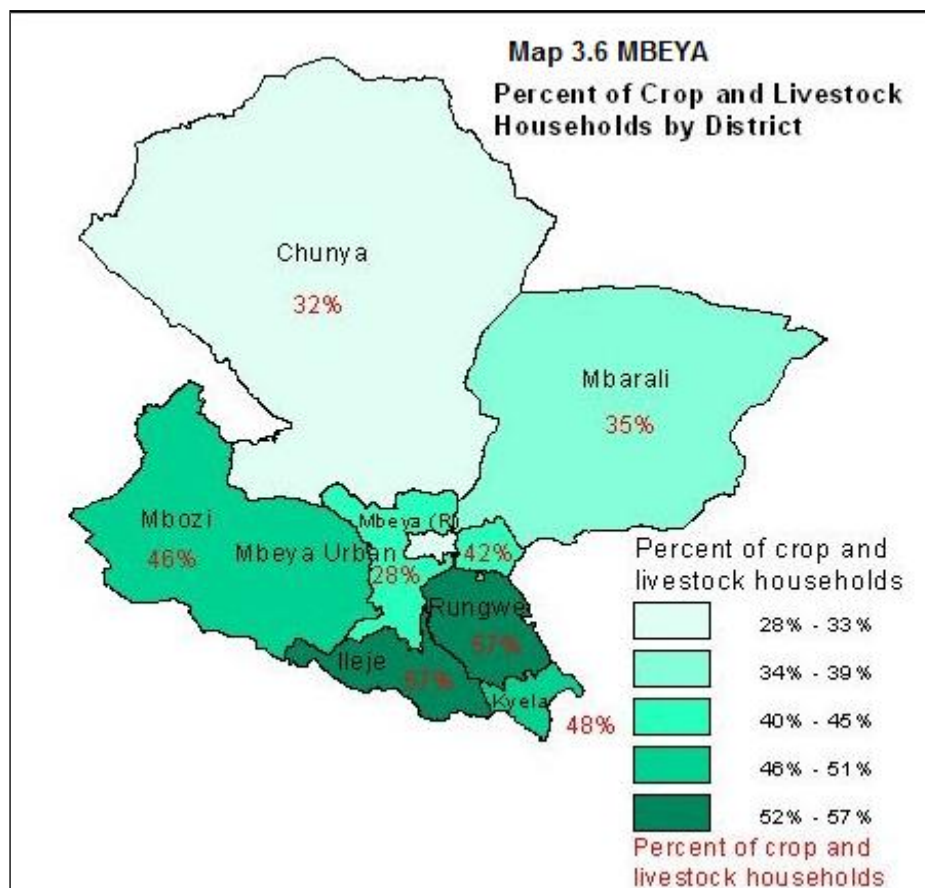
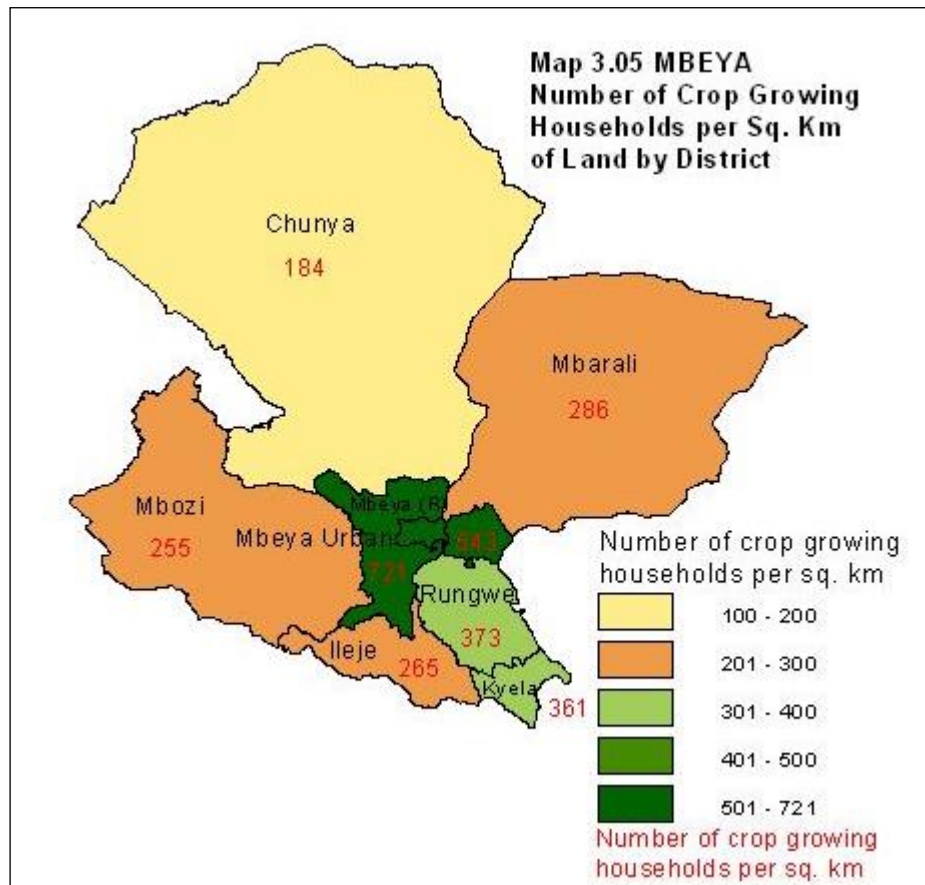
Literacy Level for Household Members

Mbeya region had a total literacy rate of 76 percent. The highest literacy rate was found in Mbeya Urban and Kyela (83%), followed by Ileje (81%), Rungwe (78%), Mbeya Rural (76%) and Mbozi (75%). The lowest literacy rate was recorded in Mbarali and Chunya districts (71%), (Chart 3.4).



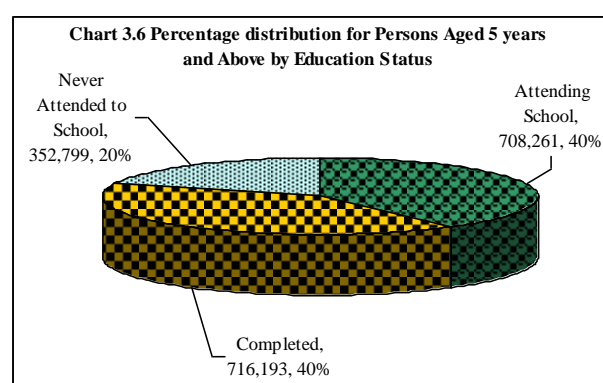
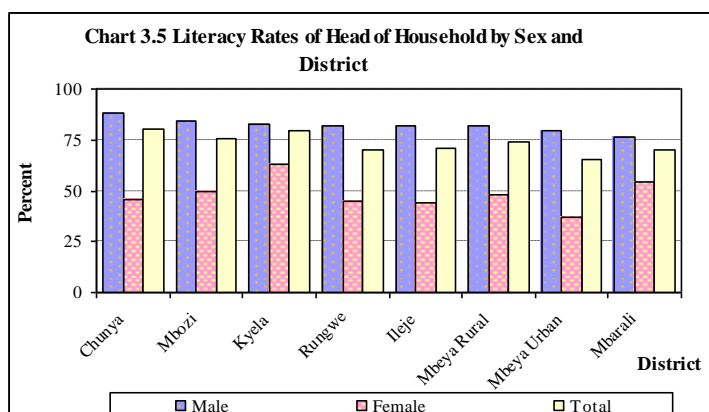






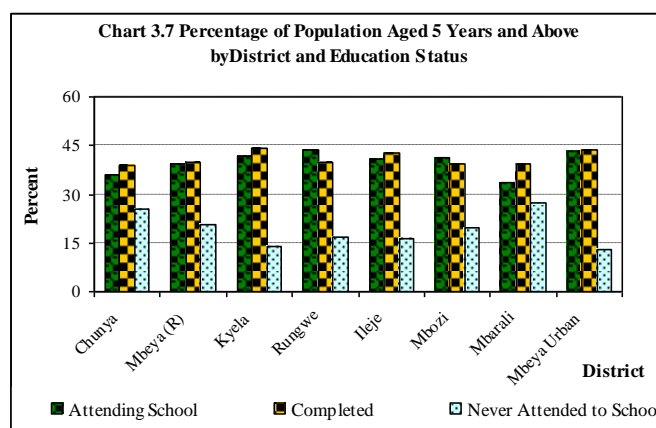
Literacy Rates for Heads of Households

The literacy rate for the heads of households in Mbeya region was 72 percent. The literacy rate for male heads was 82 and that of female heads was 47 percent. The literacy rate of male heads was higher than that of female heads in all districts. The district with the highest literacy rate for male heads of households was Mbeya Urban (88%), followed by Mbozi (84%). The lowest percentage was in Mbarali district (76%). The highest literacy rate for female heads of households was in Kyela district with 63 percent and the lowest was Mbeya Rural with 37 percent, (Chart 3.5).

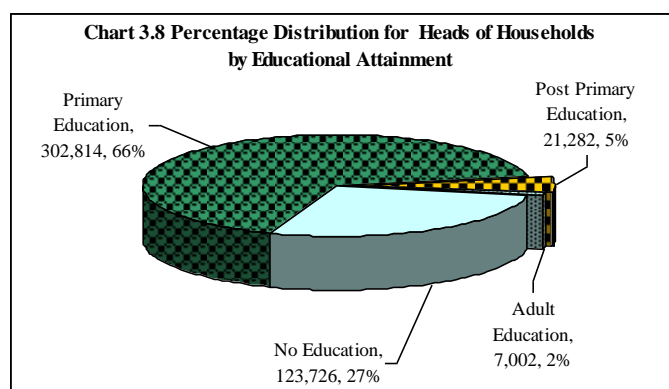


Educational Status

Information on educational status was collected from individual agricultural households. The results show that 40 percent of members of agricultural households aged 5 years and above had completed different levels of education in the region and another 40 percent were still attending school. Those who had never attended school were 20 percent, (Chart 3.6).



Agricultural households in Mbeya Urban and Kyela districts had the highest percentage of population aged 5 years and above who had completed different levels of education (44%). They were followed by Ileje (43%) and Rungwe and Mbeya Rural



each with 40 percent. The number of those attending school was highest in Rungwe and Mbeya Urban district each with 43 percent and the lowest in Mbarali (34%). Mbarali district had the highest (27%) percentage of agricultural households members who had never attended school (Chart 3.7).

Table 3.2: Percent Distribution of Heads of Households by Educational Attainment

The number of heads of agricultural households with formal education in Mbeya region was 324,096 (71%), those without any education were 123,726 (27%) and those with only adult education were 7,002 (2%). The majority of heads of agricultural households

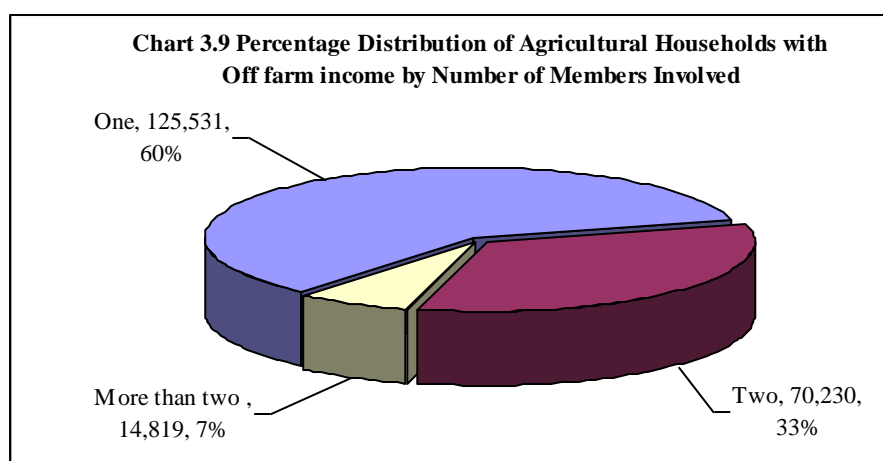
District	Primary Education	Post Primary Education	Adult Education	No Education	Total
	%	%	%	%	%
Chunya	69	6	1	24	100
Mbeya Rural	60	3	3	34	100
Kyela	65	8	0	27	100
Rungwe	67	4	0	29	100
Ileje	68	4	2	26	100
Mbozi	71	4	1	24	100
Mbarali	63	4	3	30	100
Mbeya Urban	66	13	2	20	100
Total	67	5	2	27	100

in Mbeya region had primary level education (66%), whereas only 5 percent had post primary education, (Chart 3.8).

With regard to the heads of agricultural households with primary level education in Mbeya region, Mbozi had the highest percentage (71%) of heads of household with primary education, followed by Chunya (69%). Mbeya Rural had the lowest percentage (60%) of heads of household with primary level education and highest percentage of heads with no education (34%). The highest percentage (13%) of the heads of agricultural households with post primary level education was in Mbeya Urban. The percentages for heads of agricultural households with adult education was low across all districts, it ranged between 0 to 3 percent, (Table 3.2).

3.1.6 Off-farm Income

Off-farm income refers to cash generated from non-agricultural activities. This can be either from permanent employment (i.e., government, private sector or other), temporary employment or laborers. It also



includes cash generated from working on farms belonging to other farmers.

Off-farm income is important amongst agriculture households in Mbeya region with 46 percent of agricultural household being involved in off-farm income generating activities. In the region 60 percent of agricultural households with off farm income activities had only one member aged 5 years and above involved in off-farm income generating activity, 33 percent had two members involved in off-farm income generating activities and 7 percent had more than two members involved in off-farm income generating activities, (Chart 3.9). Households with no off-farm income generating activities accounted for 54 percent of the total agricultural households in Mbeya region.

The districts with highest percentage of households with off-farm income were Mbeya Urban (63%) followed by Mbozi (53%) and Chunya (48). Mbeya Rural district had the lowest (37) percentage of agricultural households with off-farm income. Mbeya Urban had the highest (53%) percentage of agricultural households with more than one member with off-farm income followed by Chunya (51%), however Mbeya Rural had the lowest percentage of households with more than one member having off-farm income (Table 3.3).

Table 3.3: Percentage Distribution of Agricultural Household Members Involved in Off farm Income Generating Activities by Number of Members and District

District	One	Two	More than Two	Total
Chunya	49	39	12	100
Mbeya (R)	71	20	9	100
Kyela	54	37	9	100
Rungwe	61	34	4	100
Ileje	52	42	5	100
Mbozi	67	30	4	100
Mbarali	51	39	11	100
Mbeya Urban	47	40	13	100
Total	60	33	7	100

3.2 Land Use

Land area and planted area are two different types of area measurements. *Land area* refers to the physical area of land and is the same regardless of the number of crops planted on the land in one year. Planted area is the total area of crops planted in a year and the area is summed if there were more than one crop on the same land per year. A number of terms are used in this section which requires defining for clarification as follows:

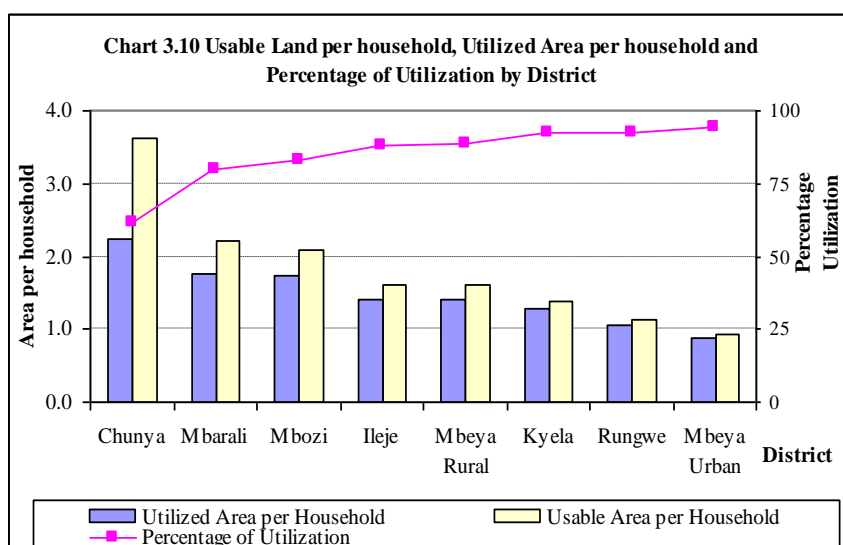
Land available refers to the area of land that has been allocated to smallholders through customary law, official title or other forms of ownership. Land available does NOT mean the

total area of land that is designated as agriculture land in the country; however it is the land that is available to smallholders given the location of villages and lack of access to more remote parcels of unused agriculture designated land.

Usable land refers to the available land minus the land that cannot be used e.g. bare rock, shallow soils, steep slopes, swamp areas and the like. It does however include un-cleared bush. Utilized land refers to the land that was used during the year.

3.2.1 Area of Land Utilized

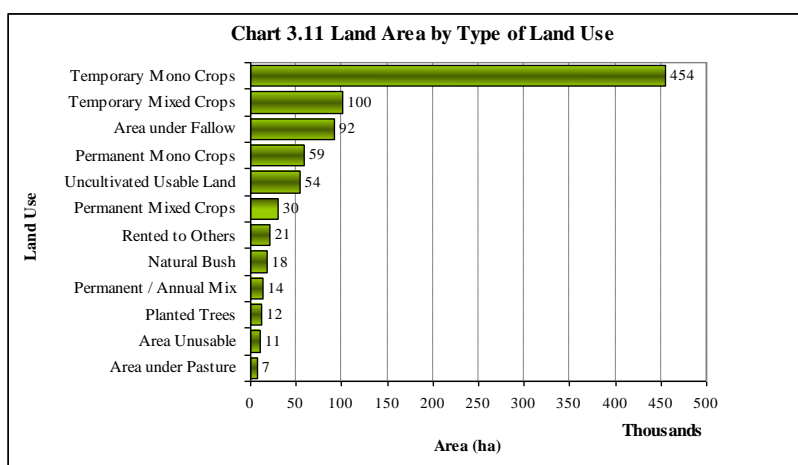
In Mbeya region a total of 862,355 hectares of land were available for use by agricultural smallholders, out of which 697,737 hectares (80.9%) were utilized. The average land utilization per agricultural household at regional level was 1.5 hectares. This figure is below the national average which is estimated at 2.0 hectares. The district with the highest percentage of land utilization was Mbeya Urban (94%), followed by Kyela and Rungwe with 92 percent each. The lowest percentage was in Chunya district (61.8%), (Chart 3.10 and Map 3.7).



There were variations across districts on land utilizations per household, with Chunya having the highest land utilization at 2.2 ha per household, followed by Mbarali (1.8 ha/hh) and Mbozi (1.7 ha/hh). The smallest land area utilised per household was found in Mbeya Urban district with 0.9 ha per household.

3.2.2 Types of Land Use

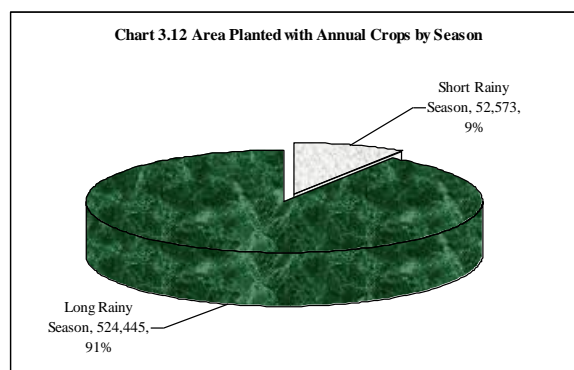
The area of land under temporary monocrop was the largest in the region having 454,074 hectares (52.0% of the total land available to smallholders in Mbeya region). This was followed by area under



temporary mixed crops (100,445 ha, 11.6%), land area under fallow (92,454 ha, 10.6%), permanent mono crop (59,174 ha, 6.8%), uncultivated usable land (54,008 ha, 6.2%), area under permanent mixed crop (30,397 ha, 3.5%), area rented to others (20,538 ha, 2.4%), area under natural bush (18,157 ha, 2.1%), and area under permanent/annual mix (14,036 ha, 1.6%). Other types of land use include area planted with trees (11,732 ha, 1.4%), unusable land (10,676 ha, 1.2%), and area under pasture (7,344 ha, 0.8%), (Chart 3.11).

3.3 Annual Crop and Vegetable Production

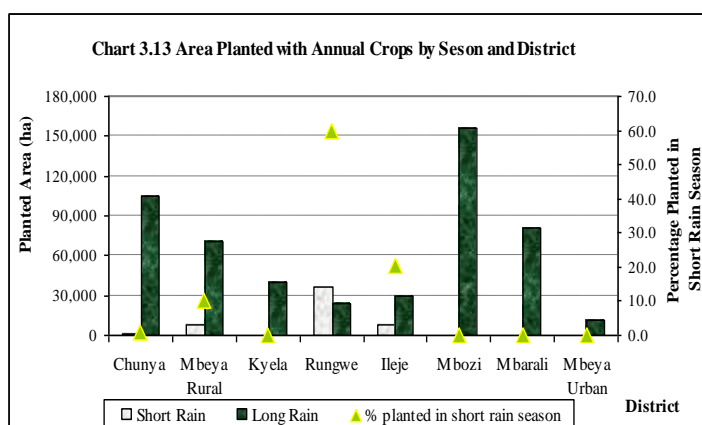
Mbeya region has two rainy seasons the short rainy season (October to November) which is not very important for crop production and the long rainy season (April to May). The quantity of crops produced in both seasons will be used as a base for comparison with the past surveys and censuses.



3.3.1 Area Planted

The area planted with annual crops and vegetables was 577,018 hectares out of which 52,573 hectares (9%) were planted during short rainy season and 524,445 hectares (91%) during long rainy season (Chart 3.12). The area planted with annual crops and vegetable increases from 459,229 ha in 2002/03 to 577,018 ha in 2007/08 agricultural year where by area planted during the long rainy season has increased from 417,586 ha to 524,445 hectares (25.6%).

Mbozi district had the largest planted area (155,904 ha) followed by Chunya (105,520 ha), Mbarali (80,785 ha), Mbeya Rural (78,093 ha), Rungwe (60,475 ha), Kyela (39,990 ha), Ileje (36,755 ha) and the least planted area was in Mbeya urban (10,862 ha). During the short



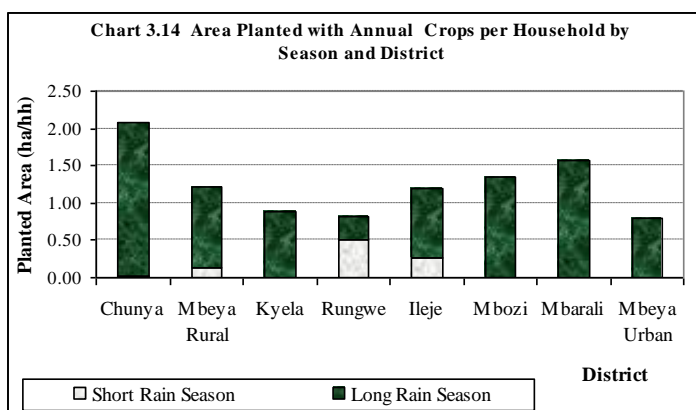
rain, Rungwe had the largest percentage planted area (36,203 ha; 59.8% of total area planted with annual crops in the district), followed by Mbeya Rural (7,971 ha, 10.2%), Ileje (7,475 ha, 20.3%), Chunya (809 ha, 0.8%) and Mbeya Urban (11 ha, 0.1%) during the short rainy season (Chart 3.13, Map 3.08)

The planted area occupied by cereals during short and long rain seasons was 386,887 ha (67.0% of the total area planted with annuals). This was followed by pulses (90,765 hectares, 15.7%), oil seeds & oil nuts (66,988 hectares, 11.6%), roots and tubers (20,549 hectares, 3.6%), cash crops (7,919 hectares, 1.4%) and fruit and vegetables (3,908 hectares, 0.7%), (Table 3.4).

Table 3.4: Percentage Distribution of Area Planted with Annual Crop by Crop Type

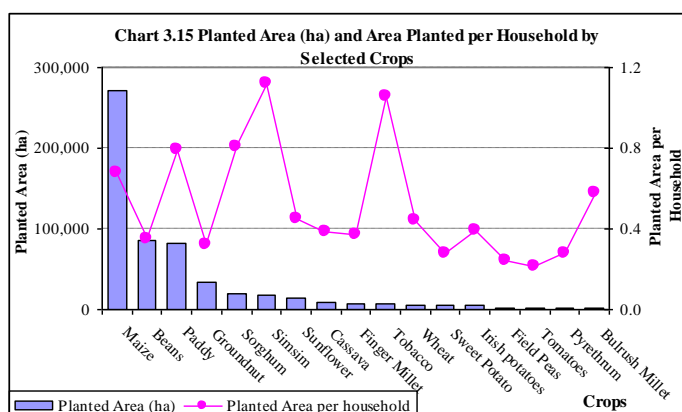
Crop	Planted Area (ha)	%
Cereals	386,889	67.0
Roots & Tubers	20,549	3.6
Pulses	90,765	15.7
Oil Seeds & Oil Nuts	66,988	11.6
Fruits & Vegetables	3,908	0.7
Cash Crops	7,919	1.4
Total Area Planted (ha)	577,018	100

The average areas planted per household during the short and long rainy seasons were 0.54 and 1.20 ha respectively. The district with the largest area planted per household during the long rainy season was Chunya (2.08 ha/hh), followed by Mbarali (1.59 ha/hh) and Mbozi (1.36 ha/hh). The smallest planted area per household (0.35 ha) was in Rungwe. The area planted during short rainy season in Rungwe represents 60 percent of the total area planted in the district, (Chart 3.14 and Map 3.09).



3.3.2 Analysis of the Most Important Crops

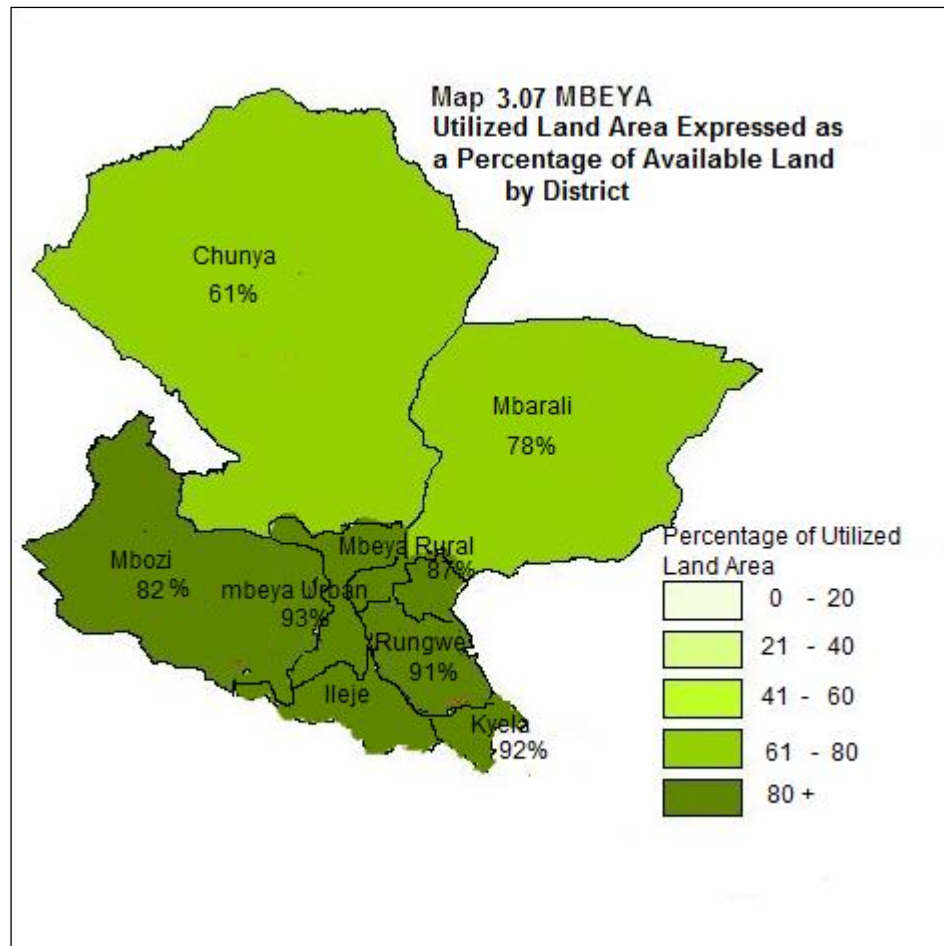
Results on crop production are presented in two different sections. The first section compares the importance of each crop regardless of whether they are annual or permanent. The second section contains a more detailed



analysis on production based on crop types.

Crop Importance

Maize is the dominant annual crop grown in Mbeya region and it had a planted area 3.1 times greater than beans, which had the second largest planted area. The area planted with maize constituted 47.7 percent of the total area planted with annual crops in the region. Other crops in order of their importance (based on area planted) are beans (15.2%), paddy (14.3%), and groundnuts (5.9%). Others though grown in small area include sorghum, simsim, sunflower, cassava, finger millet, tobacco, wheat, sweet potatoes, irish potatoes, field peas, tomatoes pyrethrum and bulrush millet. Households that grew simsim, tobacco, sorghum and paddy have larger planted areas per household than for other crops, (Chart 3.15).



3.4 Types of Crops

3.4.1 Cereal Crop Production

The total production of cereals was 689,720 tonnes. Maize was the dominant cereal crop produced 494,810 tonnes or 71.7 percent of total cereal crop production, followed by paddy (23.79%) sorghum (3.11%), finger millet (0.63%), wheat (0.60%) and bulrush millet (0.12%)

The total area planted with cereals in both seasons was 386,887 ha. The long rainy season accounted for 88.8 percent of the total area planted with cereals. The area planted with maize was dominant and it represented 70.2 percent of the total area planted with cereal crops, and was followed by paddy (21%), sorghum (5.1%), finger millet (2.0%), wheat (1.4%) and bulrush millet (0.4%). The production of maize was 494,810 tonnes, followed by paddy (164,065 tonnes), sorghum (21,480 tonnes), finger millet (4,376 tonnes), wheat (4,153 tonnes) and bulrush millet (837 tonnes). However, seasonal differences were apparent, with higher production during the long rainy season than in the short rainy season. Some crops such as sorghum, bulrush millet and wheat were not grown during the short rainy season.

Nonetheless yield per hectare were highest in paddy (2.02 tonnes/ha), followed by maize (1.82 tonnes/ha) and sorghum (1.1 tonnes/ha). Yields of other crops were lower than one tonne per hectare with, bulrush millet having the least with average yield of 0.54 tonnes/hectare, (Table 3.5).

Table 3.5: Area, Production and Yield of Cereal Crops by Season and Crop

Crop	SHORT RAINY SEASON			LONG RAINY SEASON			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	41,790	56,543	1.35	229,612	438,266	1.91	271,402	494,810	1.82
Paddy	1,262	561	0.44	80,006	163,504	2.04	81,267	164,065	2.02
Sorghum	.	.	.	19,646	21,480	1.09	19,646	21,480	1.09
Bulrush Millet	.	.	.	1,544	837	0.54	1,544	837	0.54
Finger Millet	344	530	1.54	7,265	3,846	0.53	7,608	4,376	0.58
Wheat	.	.	.	5,419	4,153	0.77	5,419	4,153	0.77
CEREALS	43,395	57,635	1.33	343,492	632,086	1.84	386,887	689,720	1.78

Mbozi district had the largest area planted with cereals in the region (92,146 ha, 23.8% of the total area planted with cereals in the region), followed by Mbarali, (73,327 ha, 19%), Chunya (67,020 ha, 17.3%), Mbeya Rural (51,538 ha, 13.3%), Kyela (36,700 ha, 9.5%) and Rungwe (35,262 ha, 9.1%). The smallest area planted with cereals was in Mbeya Urban (7,036 ha, 1.8%), (Table 3.6, Map 3.10).

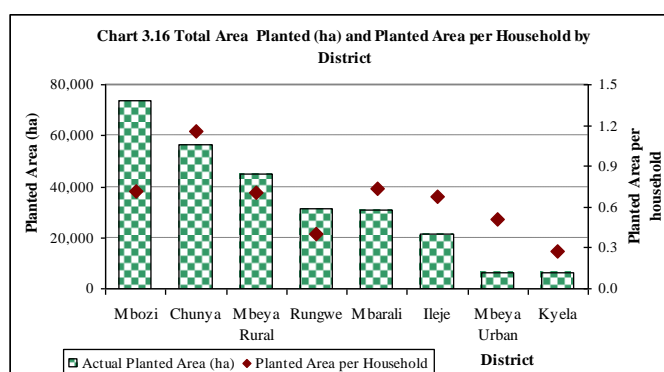
Table 3.6: Area Planted with Cereal Crops by Season and District

Crop	SHORT RAINY SEASON		LONG RAINY SEASON		TOTAL	% of Total Area
	Actual Planted Area (ha)	%	Actual Planted Area (ha)	%	Actual Planted Area (ha)	
Chunya	30	0	66,989	17.3	67,020	17.3
Mbeya Rural	6,538	1.7	45,000	11.6	51,538	13.3
Kyela	0	0.0	36,700	9.5	36,700	9.5
Rungwe	31,639	8.2	3,623	0.9	35,262	9.1
Ileje	5,188	1.3	18,671	4.8	23,860	6.2
Mbozi	0	0.0	92,146	23.8	92,146	23.8
Mbarali	0	0.0	73,327	19.0	73,327	19.0
Mbeya Urban	0	0.0	7,036	1.8	7,036	1.8
Total	43,395	11.2	343,492	88.8	386,887	100

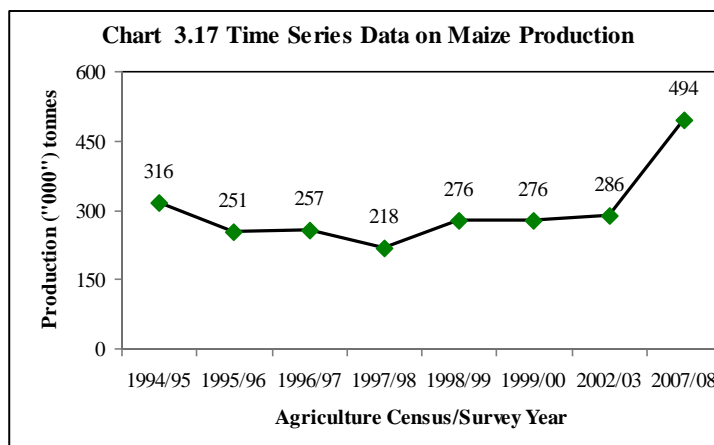
Maize

Maize dominated the production of cereals in the region. The number of households growing maize in Mbeya region during the long and short rainy season was 401,372 (91.8% of the total crop growing households in the region). The total production of maize was 494,810 tonnes from a planted area of 271,402 hectares resulting in a yield of (1.82 t/ha).

Mbozi had the largest area planted with maize (73,970 ha), this was followed by Chunya 56,571 ha), Mbeya Rural (44,824 ha), Rungwe (31,269 ha), Mbarali (31,109 ha), Ileje (21,387 ha), Mbeya urban (6,249 ha) and the district with the least planted area was Kyela (6,022 ha). Although Mbozi had the largest planted area for maize, the area planted per household was nearly similar to Ileje, Mbeya Rural, and Mbarali at about 0.7 ha/hh. On the average the area planted with maize per maize growing household was 0.68 hectares, the highest was in Chunya (1.15 ha/hh) and the lowest was in Kyela (0.28 ha/hh), (Chart 3.16, Map 3.11, Map 3.12).

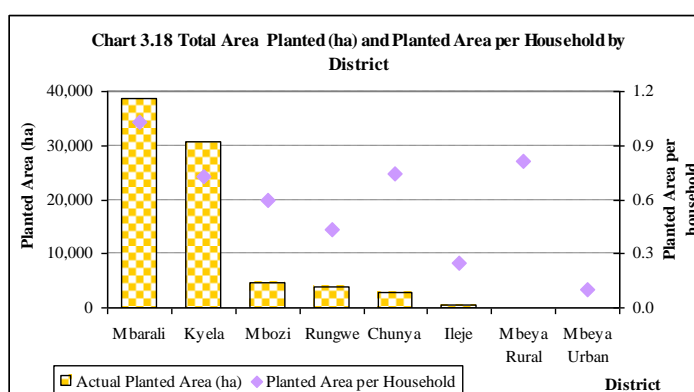


There was a decrease in the production of maize from 316,000 tonnes in 1994/95 to 218,000 tonnes in 1997/98. However, between 2003 and 2008 maize production increased from 286,000 tonnes to 494,000 tonnes representing an increase of 72 percent (Chart 3.17). The area planted with maize remained almost constant between 2003 and 2008 but the yield increased from 1.24 t/ha to 1.82 t/ha.

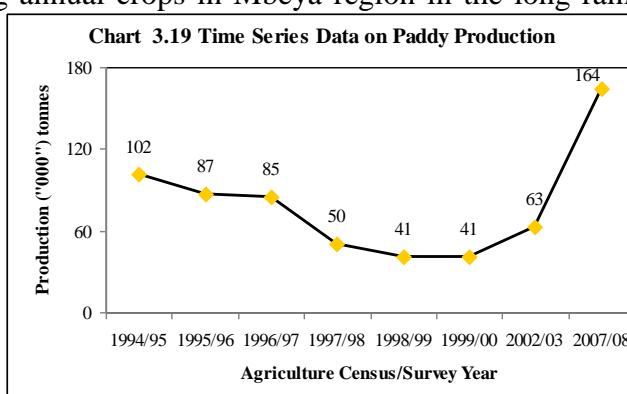


Paddy

Paddy was the second most important cereal crop in the region in terms of planted area, (Table 3.5). The number of households that grew paddy in Mbeya region during the long rainy season was 99,257. This represented 23.03 percent of the total households growing annual crops in Mbeya region in the long rainy season. On average each household planted paddy on about 0.8 hectare during long rain season. The total production of paddy was 164,065 tonnes from a planted area of 81,267 hectares resulting in a yield of 2.02 t/ha (Table 3.5).



The district with the largest area planted with paddy was Mbarali (38,668 ha; 48% of total regional area planted with paddy) followed by Kyela (30,632 ha; 38%), Mbozi (4,596 ha), Rungwe (3,868 ha) Chunya (2,794 ha), Ileje (578 ha), Mbeya Rural (129 ha) and Mbeya Urban (4 ha). There are small district variations in the average area planted per crop growing household ranging from 0.1 ha in Mbeya Urban to 1.0 ha in Mbarali (Chart 3.18, Map 3.13 & 3.14).

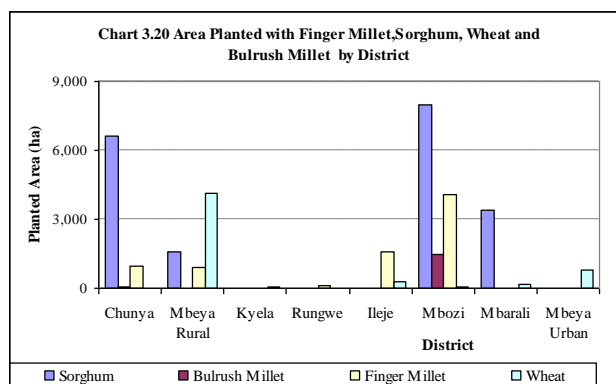


The production of paddy in the region has been declined gradually from 102,000 tonnes in 1994/95 to 41,000 tonnes in 1999/2000. However, there was a gradual increase in production

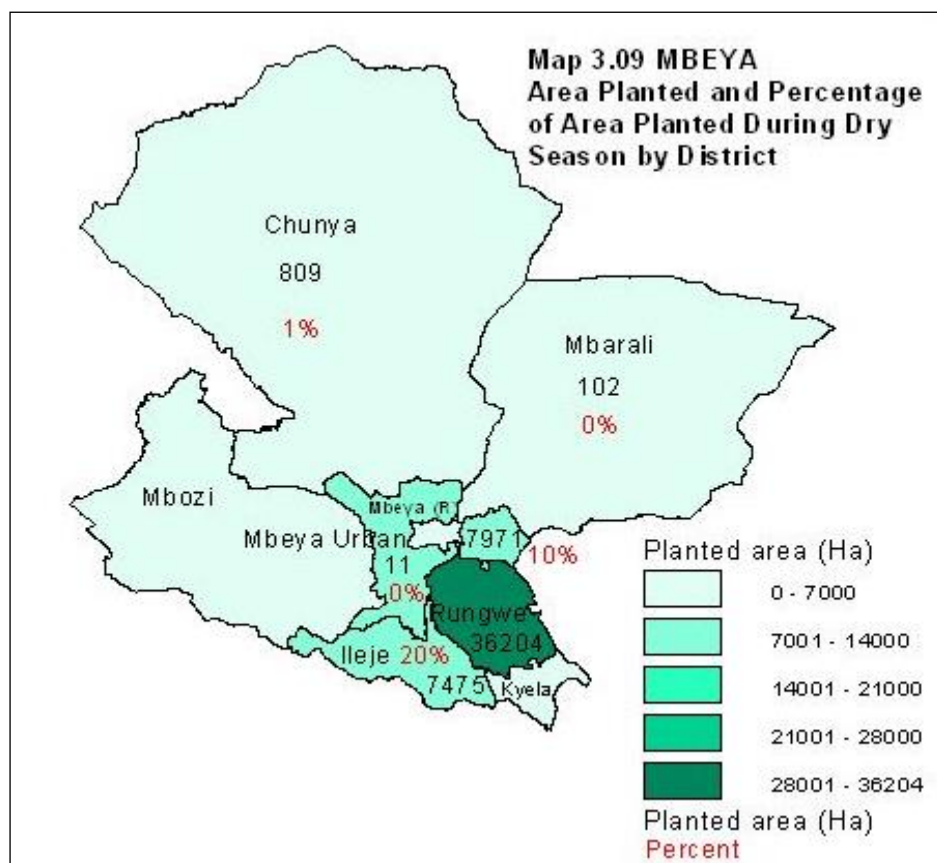
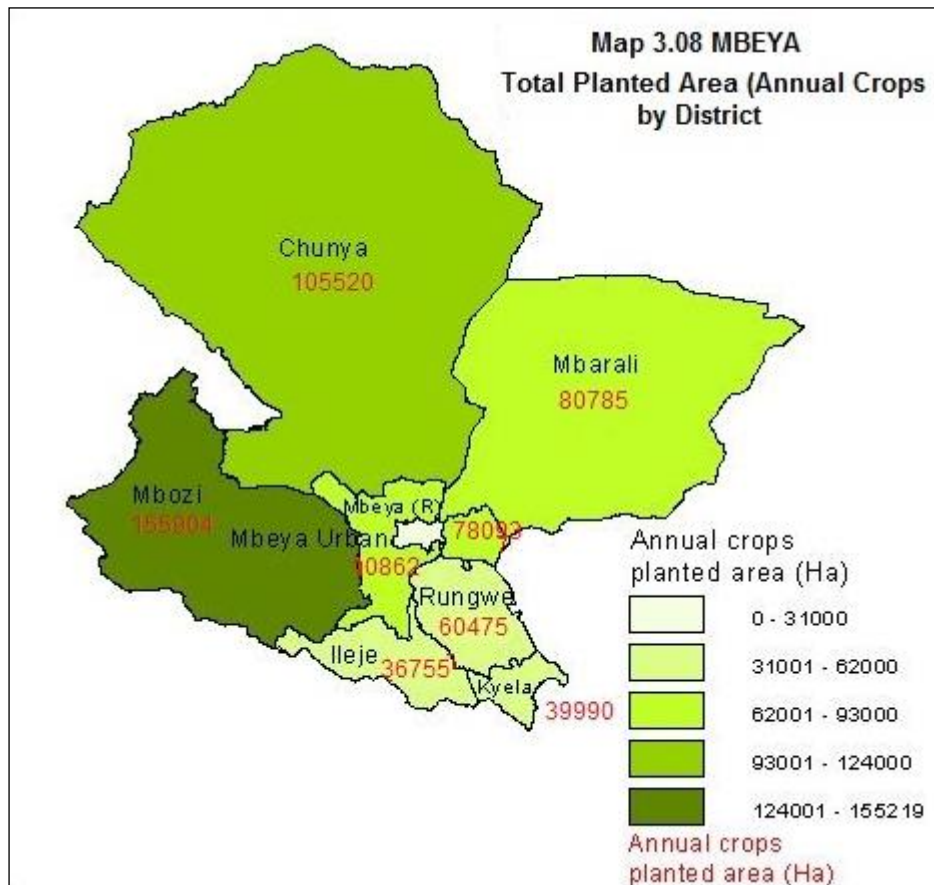
between 2000 and 2002/03, thereafter, production of paddy shot up from about 63,000 tonnes in 2002/03 to 164,000 tonnes equivalent to 160 percent increase in 2007/08(Chart 3.19). The production was partly due to an increase in planted area from 54,743 ha in 2002/03 to 164,065 ha in 2007/08 as well as increase in yield per hectare from 1.15 t/ha to 2.02 t/ha.

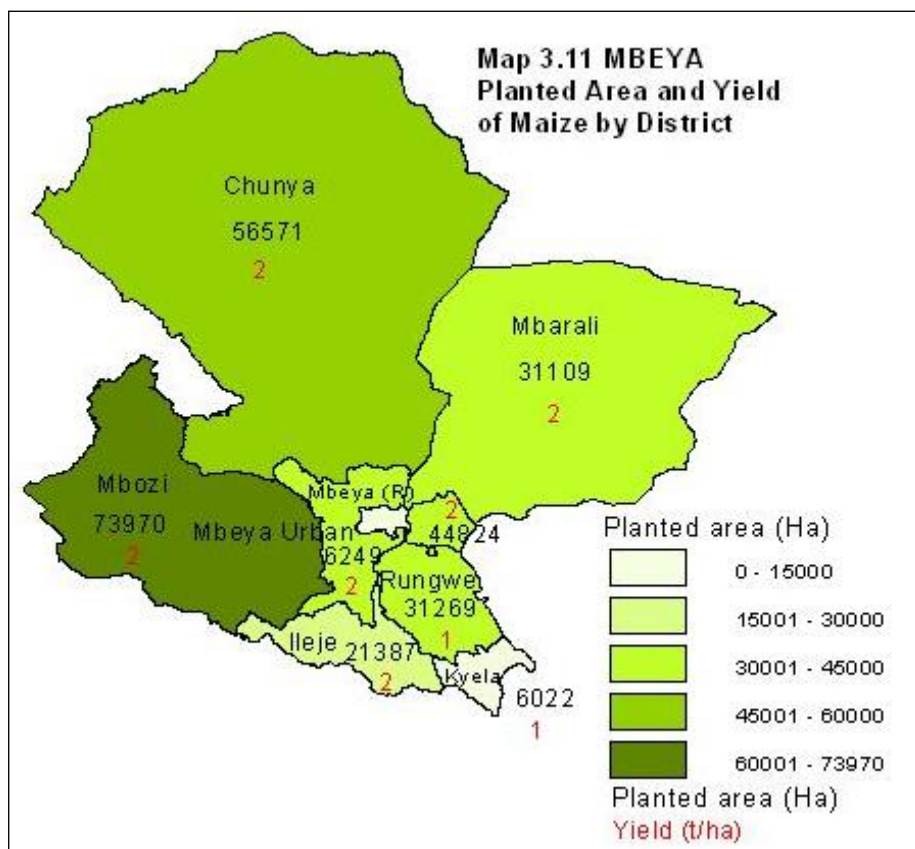
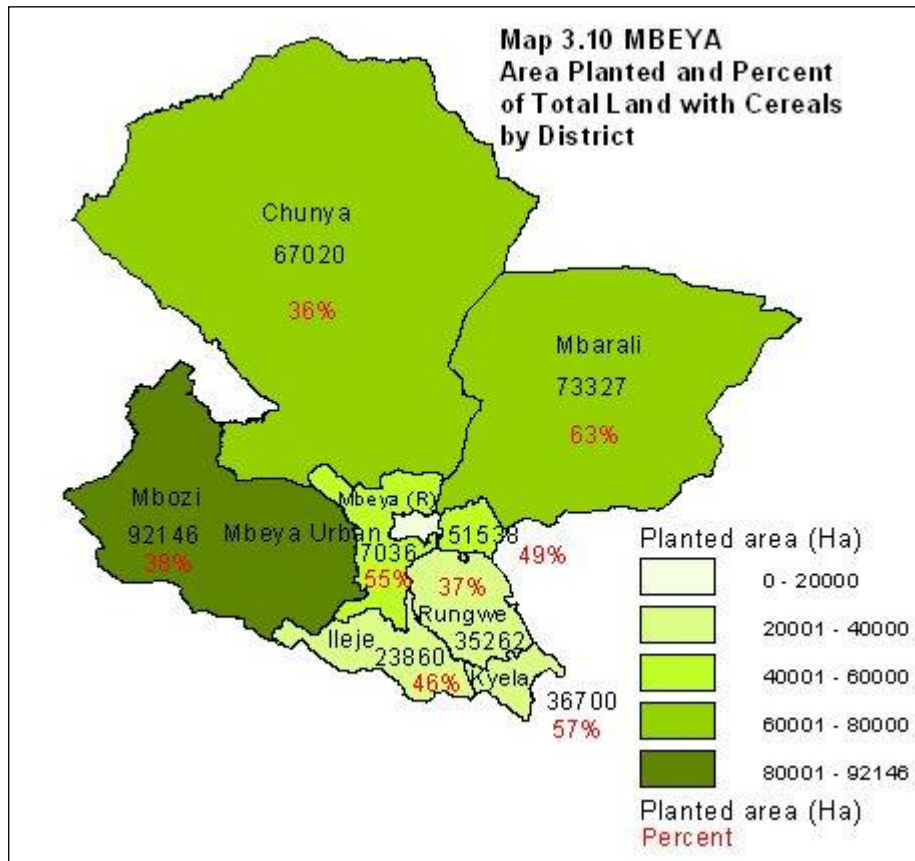
Other Cereals

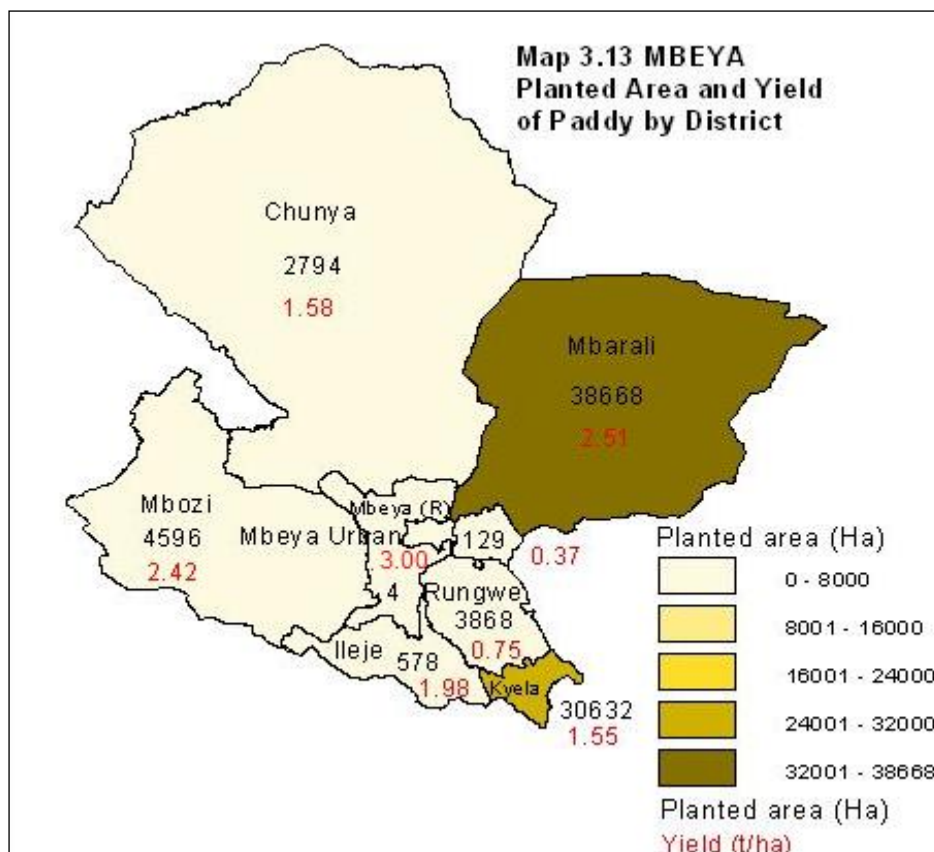
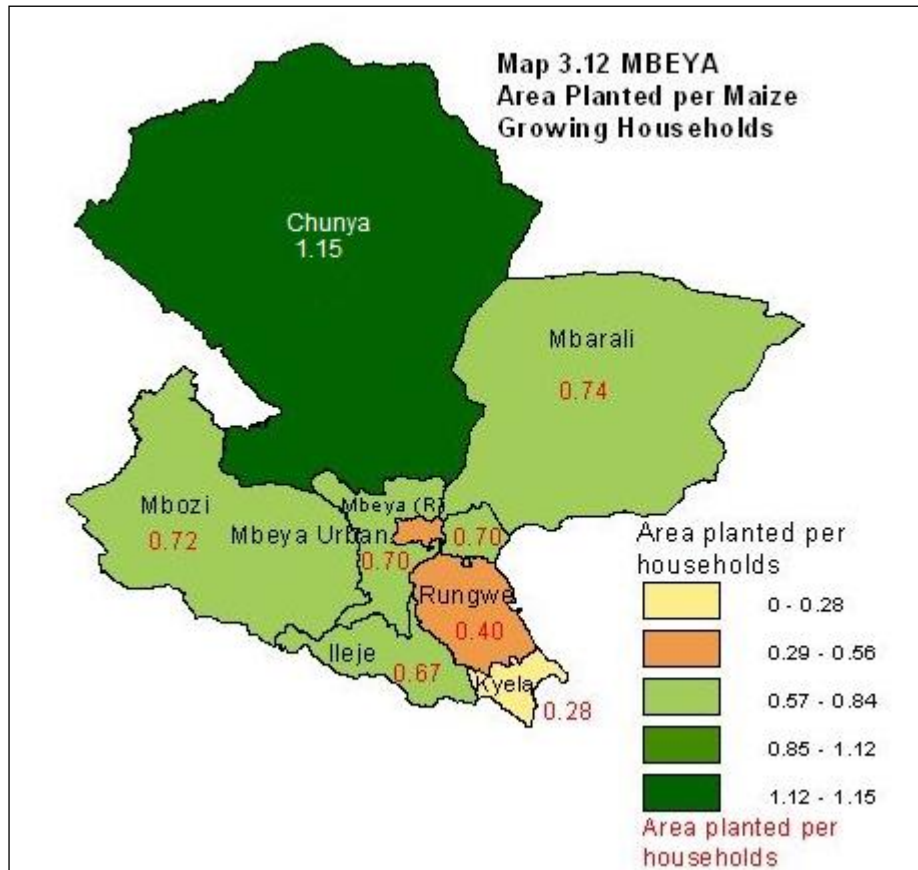
Other cereals produced in the region were sorghum; bulrush millet, finger millet and wheat. Mbozi district had the largest area planted with sorghum (8,008 ha) and was grown in all district except Kyela, Rungwe and Mbeya Urban. Bulrush millet was only grown in Mbozi (1,494 ha) and Chunya (51 ha), while finger millet was mostly in

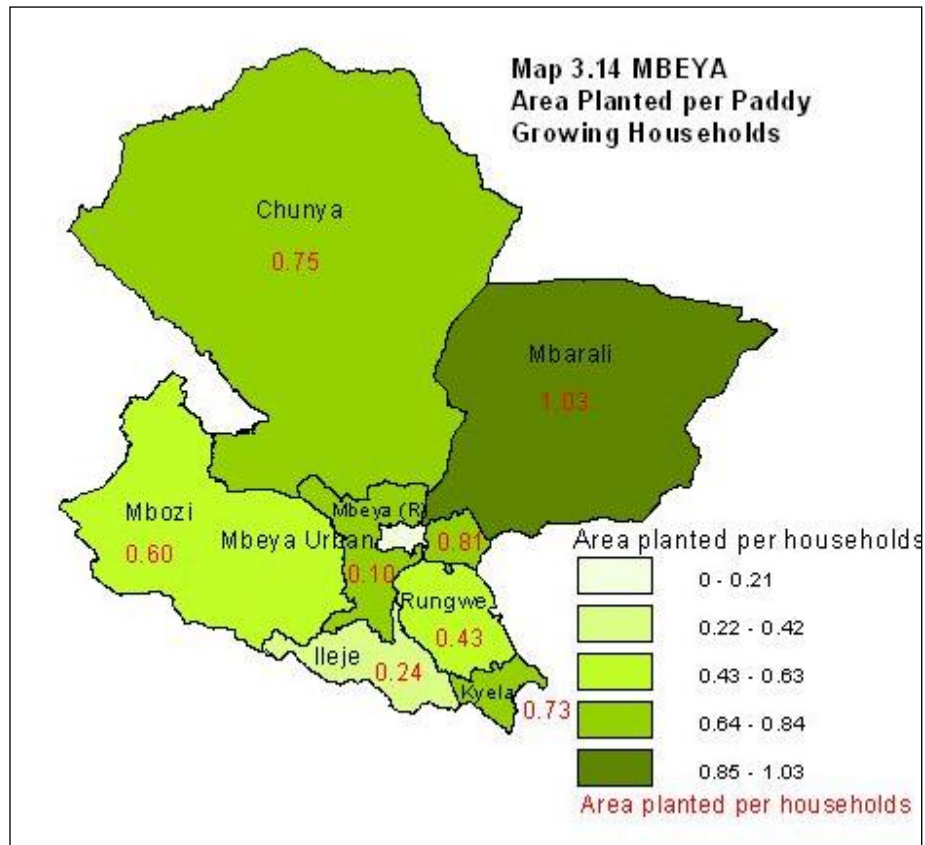


Mbozi (4050 ha), followed by Ileje (1,589 ha), Chunya (961 ha) and Mbeya Rural (885 ha). In Rungwe finger millet was grown in small quantities and only 124 hectares were planted. Wheat was cultivated in all districts of Mbeya region, except Chunya and Rungwe, (Chart 3.20)









3.4.2 Root and Tuber Crop Production

The total production of roots and tubers was 42,799 tonnes from a planted area of 20,549 hectares giving an average yield of 2.1 tonnes per hectare. Irish potatoes production was the highest with a total production of 18,386 tonnes representing 43.0 percent of the total root and tuber crop production. This was followed by cassava with 13,119 tonnes (30.7%), sweet potatoes (9,909t, 23.2%), coco yam (1,354t, 3.2%), and yams (31t, 0.1%), (Table 3.7).

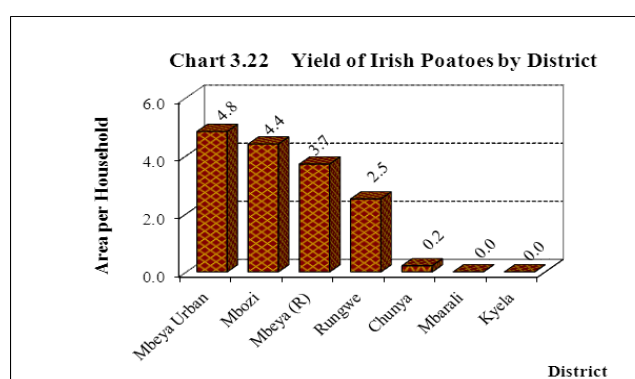
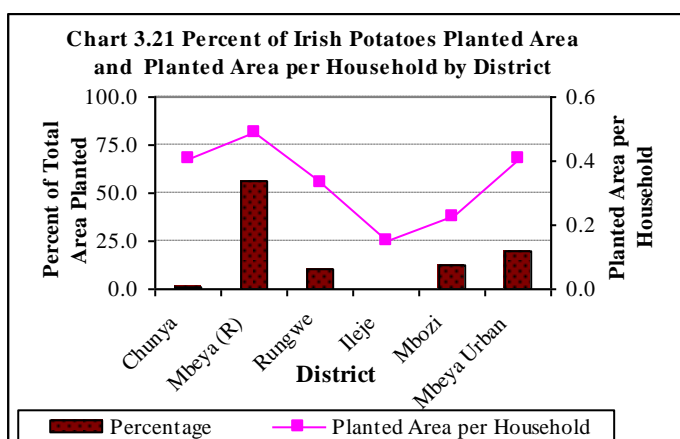
Table 3.7: Area, Production and Yield of Major Roots and Tuber Crops

Crop	Number of Household	Planted Area (Ha)	Quantity harvested (t)	Yield per ha
Yam	79	16	31	1.94
Cassava	23,966	9,274	13,119	1.4
Sweet Potatoes	18,943	5,320	9,909	1.86
Irish Potatoes	12,174	4,784	18,386	3.84
Coco yams	9,647	1,154	1,354	1.17
Total	64,809	20,548	42,799	2.08

Cassava had the largest planted area for roots and tubers accounting for 45.1 percent of the total area under roots and tubers, followed by sweet potatoes (25.9%), Irish potatoes (23.3%), cocoyams (5.6%) and yams (0.1%). The average yield per hectare was highest for Irish potatoes (3.84t/ha), followed by sweet potatoes (1.86 t/ha), yams (1.94 t/ha), cassava (1.4 t/ha), and coco yams (1.17 t/ha), (Table 3.7).

Irish Potatoes

The number of households growing Irish potatoes in Mbeya region was 12,174 and this was 2.69 percent of crop growing households in the region. The total production of Irish potatoes during the census year was 18,386 tonnes from a planted area of 4,784 hectares resulting in a yield of 3.84 t/ha. Mbeya Rural district had the largest planted area of Irish potatoes (2,706 ha, 56.6%), followed by Mbeya Urban (954ha, 19.9%) Mbozi (574 ha, 12.0%), Rungwe (475 ha, 9.9%), Chunya (51 ha, 1.1%) and Ileje (24



ha, 0.5%), (Chart 3.21).

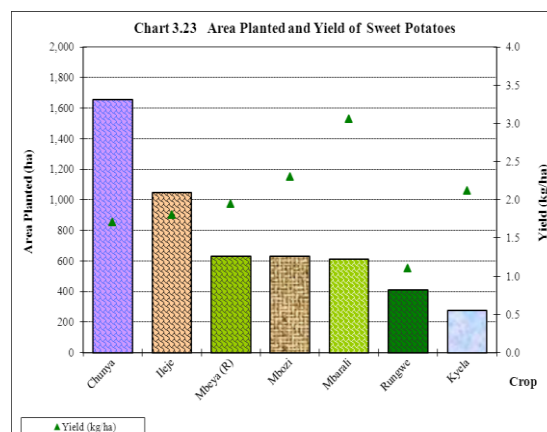
Concurrently, higher yield of Irish potatoes were recorded in Mbeya urban followed by Mbozi and Mbeya Rural (Chart 3.22).

Irish potatoes production declined from 23,454 tonnes in 2002/03 agricultural year to 18,386 tonnes in 2007/08. There was a decrease in area under Irish potatoes from 7,715 ha to 4,784 ha. In terms of production, highest production was recorded in Mbeya Rural (55% of total production), followed by Mbeya urban (25%), Mbozi (14%) and Rungwe districts (6%).

Sweet potatoes

There were 18,943 households growing sweet potatoes representing 29.2% of roots and tubers growing households in Mbeya region. The total production of sweet potatoes during the census year was 9,909 tonnes from a planted area of 5,320 hectares resulting in a yield of 1.86 t/ha (Table 3.7).

Chunya district had the largest area planted with sweet potatoes (1,656 ha; 31%). This was followed by Ileje (1,048 ha; 20%), Mbeya Rural (653 ha; 12%), Mbozi (632 ha; 12%) and Mbarali (613 ha; 12%), Rungwe (411 ha, 8%), Kyela (276 ha, 5%) and Mbeya Urban (31 ha, 0.6%), (Chart 3.23).



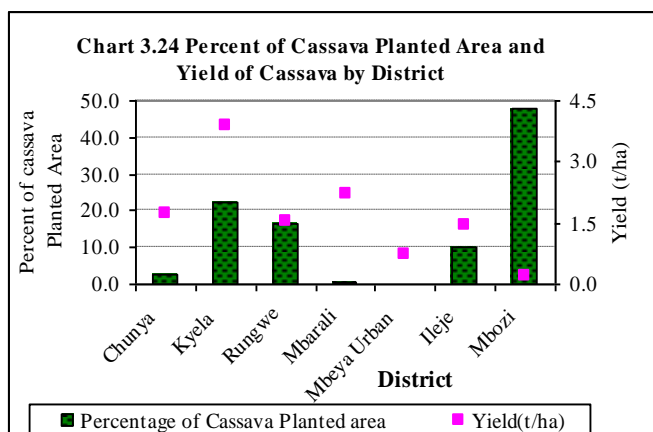
However, the largest sweet potatoes planted area per household was in Chunya, followed by Mbeya Urban, Mbeya Rural, Mbarali, Ileje, Mbozi, Rungwe and Kyela.

Highest production of sweet potatoes was obtained in Chunya (2,834 tonnes) followed by Mbarali (1,874 tonnes), Mbozi (1,453 tonnes) and Mbeya Rural (1,271 tonnes), Kyela (585 tonnes), Rungwe (466 tonnes) and Mbeya Urban (60 tonnes). However, Mbarali had highest yield per hectare (3.1 tonnes) followed by Mbozi (2.3 tonnes, Kyela (2.1 tonnes), Mbeya Rural (2.0 tonnes), Mbeya Urban (1.9), Chunya (1.7 tonnes), Ileje (1.3 tonnes) and Rungwe (1.1 tonnes) (Chart 3.23).

Cassava

There were 23,966 households that grew cassava in Mbeya region. The total area planted with cassava was 9,274 hectares and the production was 13,119 tonnes. The average yield of cassava

was 1.4 t/ha. Mbozi had the largest area planted with cassava (4,426 ha, 47.7% of total area under cassava), followed by Kyela (2,088 ha, 22.5%), Rungwe (1,517ha, 16.4%), Ileje (945 ha, 10.2%), Chunya (234 ha, 2.5%) and Mbarali (64 ha, 0.7%). Mbeya Urban had 0.01 percent of the area. With respect to yield of cassava, highest yield was found in Kyela district (4.4 t/ha) followed by Mbarali (2.2t/ha), Chunya (1.7t/ha), Rungwe (1.5t/ha), Ileje (1.5 t/ha), Mbeya Urban (1.0t/ha) and Mbozi (0.2 ha) (Chart 3.24).



3.4.3 Pulse Crops Production

The total area planted with pulses was 90,765 hectares out of which 86,326 ha (95.1% of total area planted with pulses) were planted with beans, followed by field peas (2,357 ha 2.6%), Bambara nuts (837 ha; 0.9%), Mung bean (753ha, 0.8%), cow peas (478 ha, 0.5%)

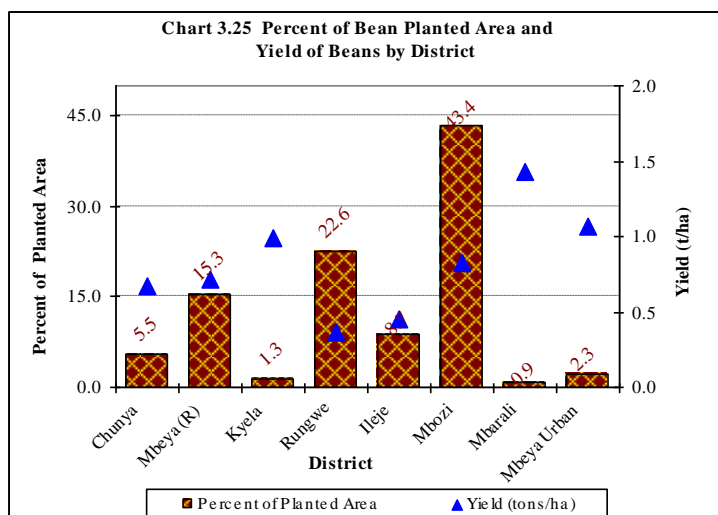
Table 3.8: Area Planted with Cereal Crops by Season and District

Crop type	Number of Households	Planted Area (Ha)	Quantity Harvested (t)	Yield (T/ha)
Mung beans	2,314	753	2,870	3.81
Beans	245,113	86,326	58,280	0.68
Cowpeas	1,817	478	364	0.76
Green gram	125	13	5	0.40
Bambaranuts	4,171	837	956	1.14
Field peas	9,670	2,357	1,387	0.59
Total	263,210	90,765	63,862	0.70

and Green gram (13 ha, 0.01%). The total production of pulses was 63,862 tonnes of which the production of beans was 58,280 tonnes (91.3% of total production of pulses).Yield of pulses varied depending on the type of crop and it ranged from 0.4 for Green gram to 3.81 in Mung beans (Table 3.8).

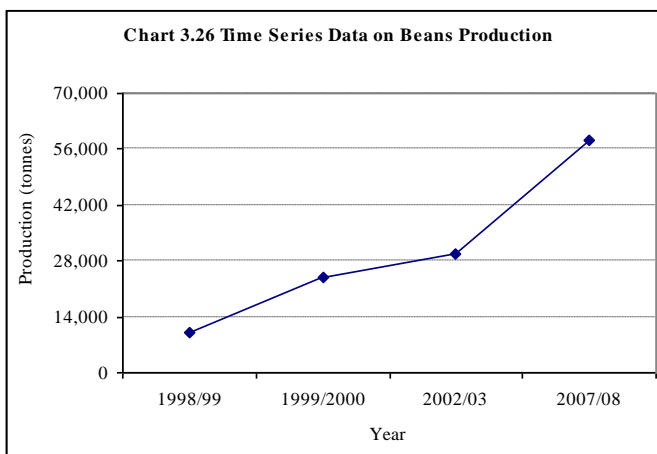
Beans

There were 245,113 household that grew beans in Mbeya region. The total area planted with beans was 86,326 ha from which 58,280 tonnes were harvested. The average yield of beans was 0.68 t/ha. Mbozi had the largest area planted with beans (37,483 ha, 43.4% of



total area under beans), followed by Rungwe (19,476 ha, 22.6%), Mbeya Rural (13,216ha, 15.3%), Ileje (7,515 ha, 8.7%), Chunya (4,783ha, 5.5%) and all the remaining districts accounted for 4.5 percent of the area under beans. With respect to yield of beans, largest yield was found in Mbarali district (1.43t/ha) and the lowest was in Rungwe (0.36t/ha). (Chart 3.25, Map 3.15 & 3.16).

In Mbeya region, bean production almost trebled from 10,155 tonnes in 1998/99 to 29,615 in 202/03 then nearly doubled to 58,280 tonnes in 2007/08. The increase in production was in part contributed by an increase in bean planted area from 63,454 ha in 2003 to 86,326 ha in 2008. However, the production per hectare increased from 0.5 t/ha to 0.68 t/ha (Chart 3.26).



Cowpeas were moderately important and were grown by 1,817 households. A total of 478 ha were cultivated during 2007/08 agricultural year yielding about 364 tonnes. The crop was mainly grown in Chunya district.

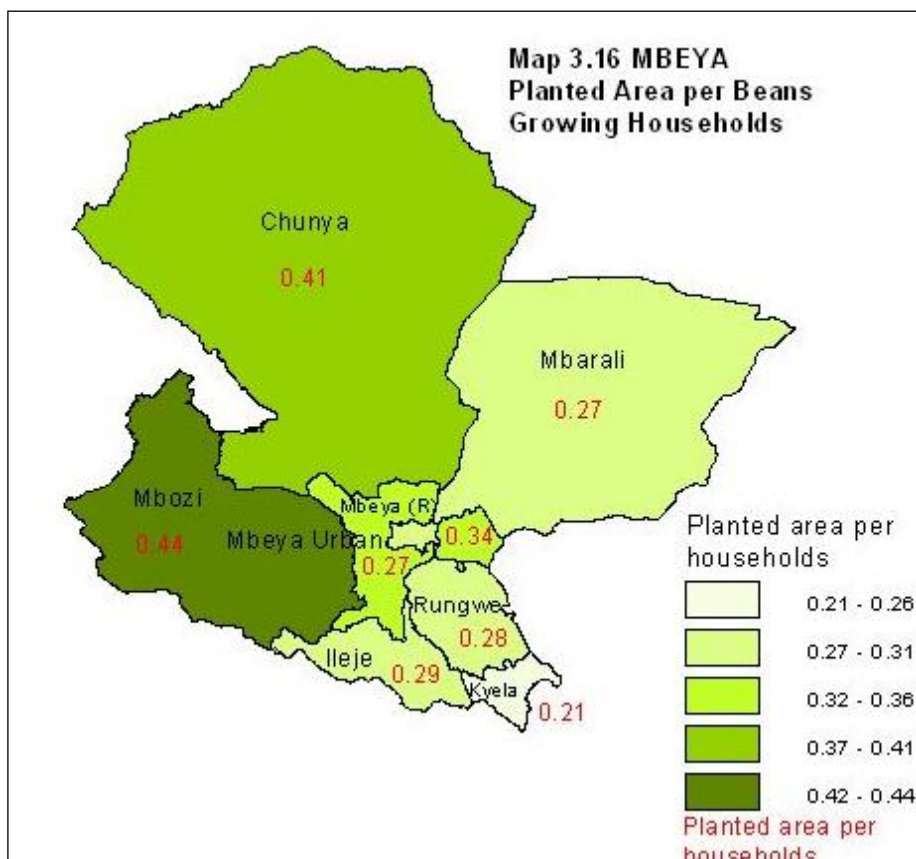
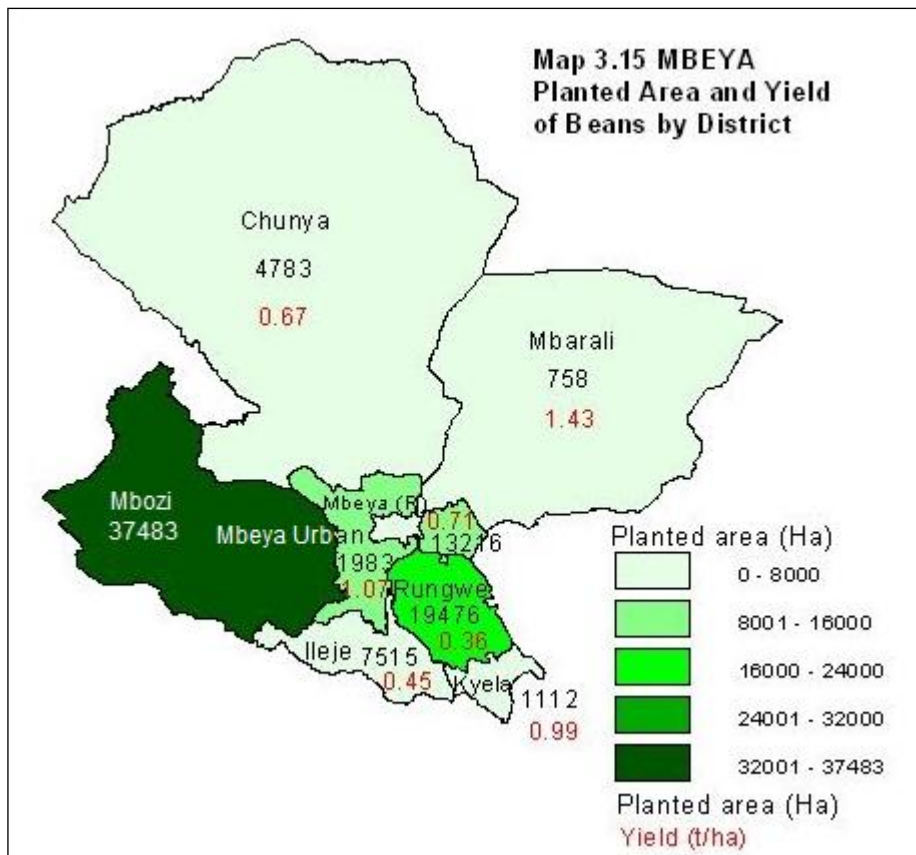
3.4.4 Oil Seed Production

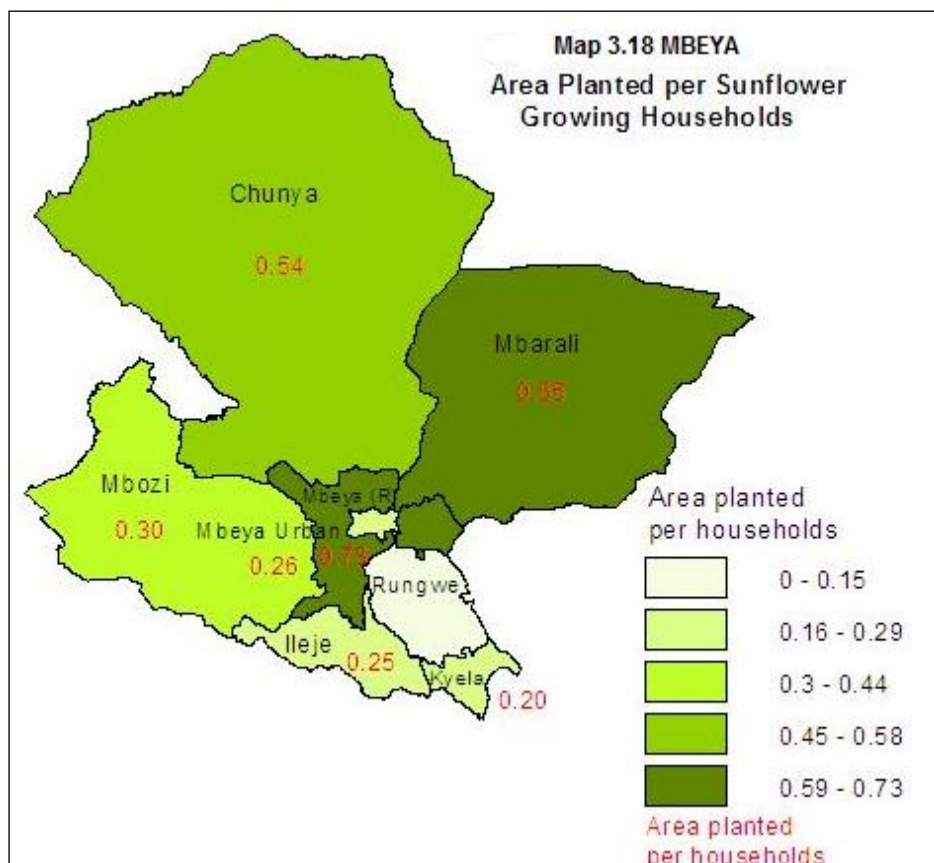
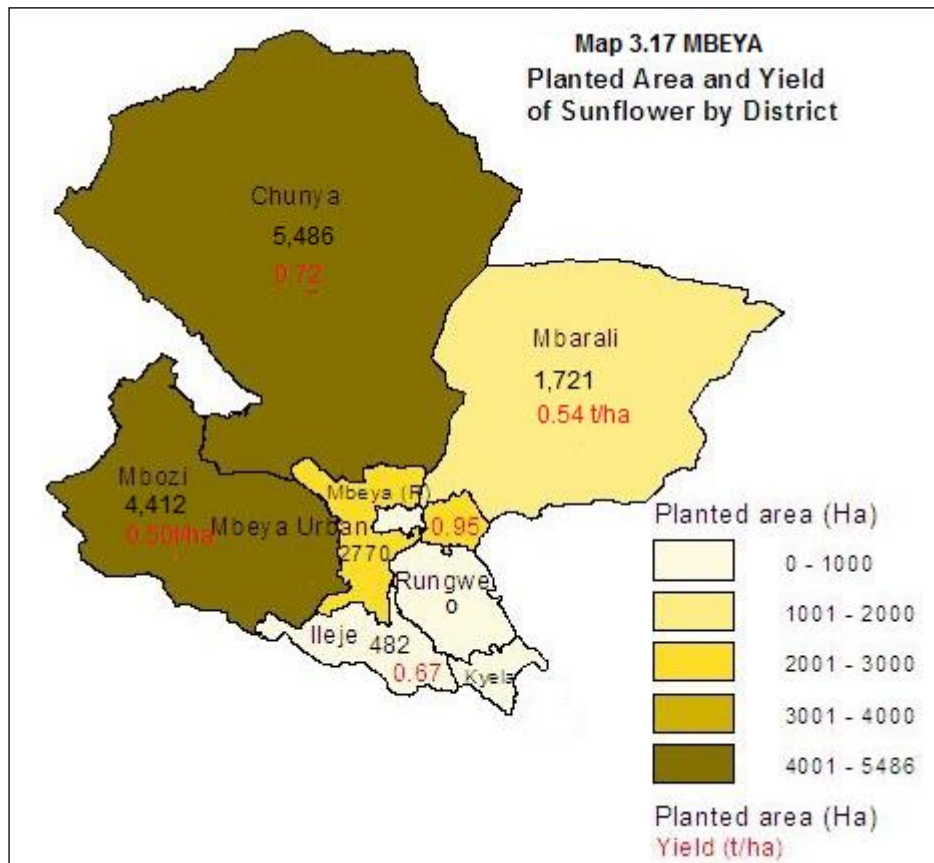
The total production of oil seed crops was 40,907 tonnes planted on an area of 66,988 hectares. Groundnuts was the most important oilseed crop with a planted area of (33,412 ha; 49.9% of the total area

Table 3.9: Area, Production and Yield of Oil Seeds and Oil Nuts Crops

Crop type	Number of Household	Planted Area (Ha)	Quantity harvested (t)	Yield (T/ha)
Sunflower	33,399	14,963	10,131	0.68
Simsim	16,416	18,453	9,842	0.53
Groundnuts	104,418	33,412	20,897	0.63
Soybeans	929	160	37	0.23
Total	155,162	66,988	40,907	0.52

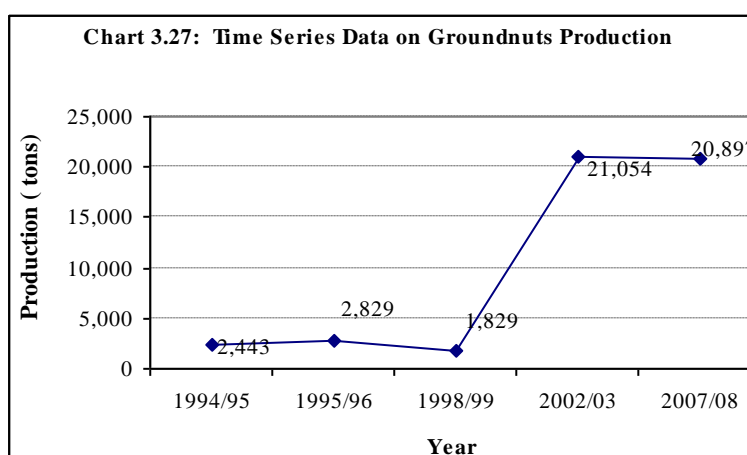
planted with oil seeds). It was followed by simsim (18,453ha; 27.5%), sunflower (14,963ha; 22.3%) and soya beans (160 ha; 0.24%). The yield of groundnuts, sunflower and simsim were moderate at 0.65, 0.68 and 0.53 tonnes per hectare respectively. Soy bean was cultivated on a small area and yield was very low at 0.23 tonnes per hectare (Table 3.9).





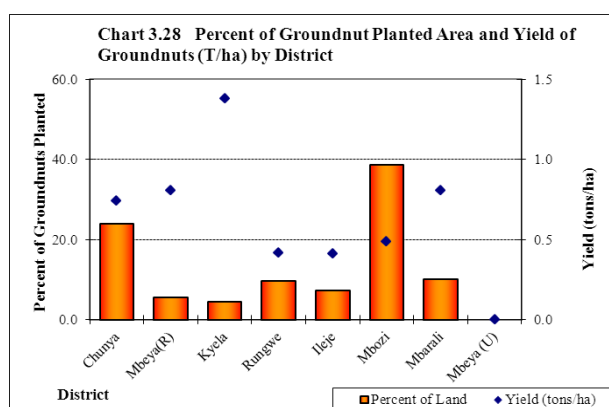
Groundnuts

The number of households growing groundnuts in Mbeya region was 104,418. The total production of groundnuts in the region was 20,897 tonnes from a planted area of 33,412 hectares resulting in a yield of 0.63 t/ha. The production of groundnuts increased steadily from 2,443 tonnes in 1995/95 to



21,054 tonnes in 2002/03. Thereafter, there was a decrease in production to 20,897 tonnes in 2007/08 (Chart 3.27).

Mbozi district had the largest planted area of groundnuts at (12,942 ha, 39%) of the area planted with oil seeds, followed by Chunya (7,971 ha, 24%), Mbarali (3,407ha, 10%), Rungwe (3,258 ha, 10%), Ileje (2,466 ha, 7%), Mbeya Rural (1,876ha, 61%) and Kyela (1,492ha, 4%). Groundnuts were not grown in Mbeya Urban (Chart 3.28; Map 3.19).



There were also large variation in yield per hectare and the leading districts were Kyela (1.38 t/ha), Mbeya Rural and Mbarali (0.81 t/ha), followed by Chunya

(0.74 t/ha). In the remaining districts the yields were below 0.5 t/ha (Chart 3.28).

Sunflower

A total of 33,399 households grew sunflower in 2007/08 agricultural year. The production was 10,131 tonnes from a planted area of 14,963 ha giving an average yield of 0.7 t/ha. The crop was mostly grown in Chunya and Mbozi districts (Map 3.18 and 3.19).

3.4.5 Fruits and Vegetables

The collection of fruit and vegetable production data was difficult due to the small quantities produced per household. Most of the data presented here gives the production of smallholders who grew these crops as cash crops and not merely for household consumption. The most

cultivated fruit and vegetable crop were tomatoes with a production of 19,191 tonnes (72.5% of the total fruit and vegetables produced). The production of cabbage was 1,731 tonnes (6.5%), onions 1,456 tonnes (5.5%), spinach 1,151 tonnes (4.3%), carrot 792 tonnes (2.9%), amaranths 761 tonnes (2.9%), water mellon 505 tonnes (1.9%), ginger 459 tonnes (1.7%). The production of other fruit and vegetable crops was relatively small (Table 3.10).

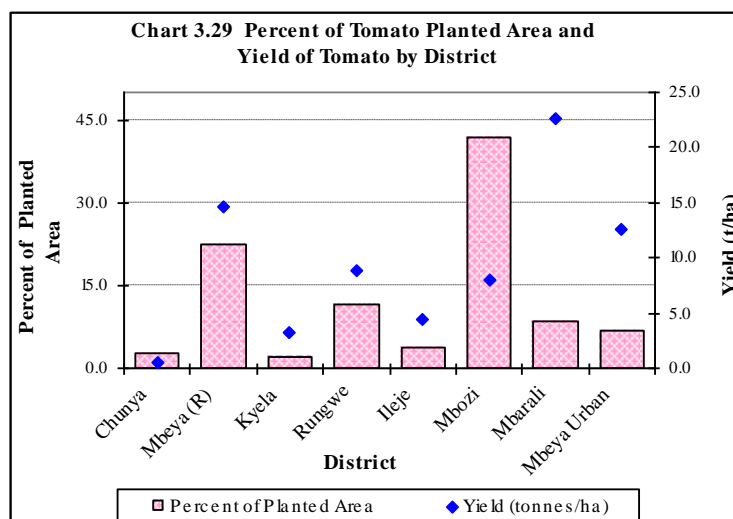
The yield of water mellon was highest (19.4t/ha) followed by tomatoes (10.7t/ha) and carrot (10.2t/ha), ginger (8t/ha) and spinach (5.1t/ha). Other vegetables gave yield lower than 5 tonnes per hectare and the lowest was pumpkins (0.8t/ha), (Table 3.10).

Table 3.10: Vegetable Production, Yield and Planted Area

Crop	Number of Household	Planted Area (hectare)	Quantity Harvested (tons)	Yield (T/Ha)
Okra	767	236	381	1.6
Onion	3,417	907	1,456	1.6
Ginger	284	57	459	8
Cabbage	1,869	383	1,731	4.5
Tomatoes	8,355	1,786	19,191	10.7
Spinach	1,834	226	1,151	5.1
Carrot	428	78	792	10.2
Chillies	38	7	26	3.7
Amaranths	2,077	170	761	4.5
Pumpkins	847	33	25	0.8
Water Mellon	126	26	505	19.4
Total	20,043	3,908	26,478	6.8

Tomatoes

The number of households growing tomatoes in the region during the wet season and dry season was 8,355. This represented 1.84 percent of the total households growing annual crops in the region during the wet season and the dry season. Tomato planted area increased from 1,218 ha in 2003 to 1,786 ha in 2008. Consequently, the quantity



harvested tripled from 6,312 tonnes to 19,191 tonnes and yield per ha doubled from 5.2 tonnes to 10.8 t/ha.

Mbozi district had the largest area planted with tomatoes (41.8% of the total area planted with tomatoes in the region), followed by Mbeya Rural (22.5%), Rungwe (11.6%), Mbarali (8.6%), Mbeya Urban (6.8%), Ileje (3.9%), Chunya (2.85%) and Kyela (1.9%), (Chart 3.29 and Map 3.21 & 3.22).

With regard to yield, highest yield of tomato was recorded in Mbarali district (22.7 t/ha), Mbeya Rural (14.7 t/ha) and Mbeya Urban (12.6 t/ha), Rungwe (8.9t/ha), Mbozi (8.0t/ha), Ileje (4.4t/ha), Kyela (3.2t/ha) and Chunya district (0.59 t/ha) (Chart 3.29). In total, 19,191 tonnes of tomatoes were produced in 2007/08 agricultural year in Mbeya region

Onions

The number of households growing onions in the region during the long rainy season and short rainy season was 3,417. This represented 0.75 percent of total number of household growing annual crops in both wet and dry season. In total 907 hectares of onions were grown in 2007/08 agricultural year and 1,456 tonnes of onions were harvested. The production of onion decreased from 3,787 tonnes in 2003 to 1,456 tonnes in 2008, despite the increase in planted area i.e. from 695 hectares to 907 hectares. Yield per ha also decreased from 5.4 t/ha to 1.6 t/ha.

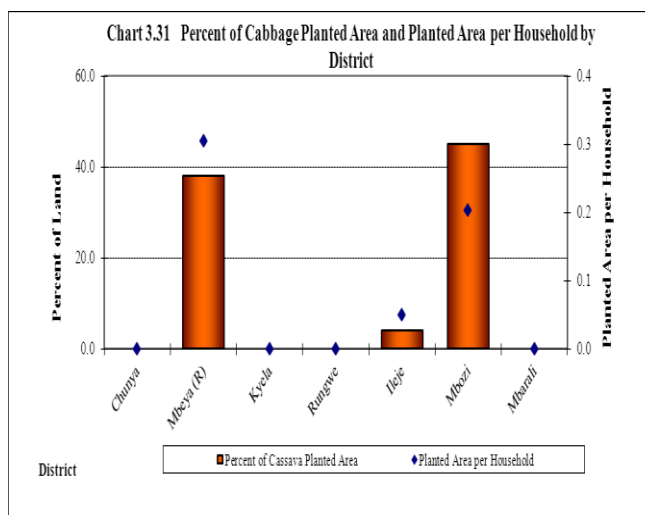
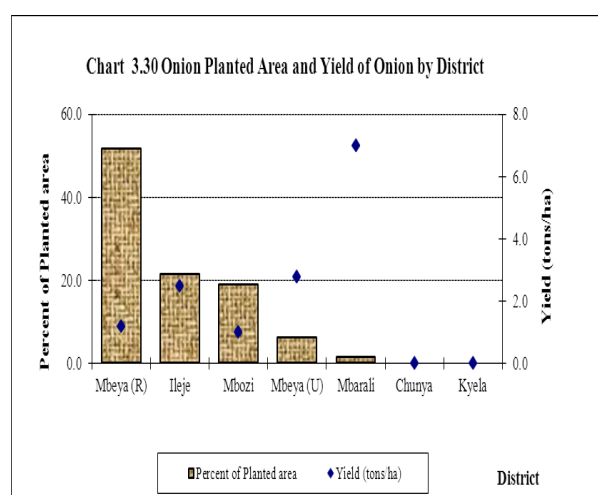
Mbeya Rural district had the largest planted area of onions (470 ha, 51.8% of the total area planted with onions in the region), followed by Ileje (195 ha, 21.5%), Mbozi (172 ha, 19.0%) and Mbeya Urban (57 ha, 6.3%). Little

onion were grown in, Mbarali (13 ha 1.4%), while the crop was not grown in Kyela and Rungwe districts. The total area planted with onions accounted for 0.74 percent of the total area planted with annual crops and vegetable during the short and long rainy seasons and on average each household grew about 0.24 ha (Chart 3.30).

Highest yield of onion per hectare were obtained from Mbarali (6.8 t/ha), followed by Mbeya Urban (2.8 t/ha), Ileje district (2.47 t/ha), Mbeya Rural (1.19 t/ha) and Mbozi (0.98 t/ha), (Chart 3.30).

Cabbage

Cabbage was the third most important vegetable grown in Mbeya region. It was grown by 1,869 households. Mbozi had



the largest area planted with cabbage (172 ha), followed by Mbeya Rural (145 ha), Mbeya Urban (50 ha) and Ileje (16 ha). However, Mbeya Rural had the largest area planted per cabbage growing household (0.3 ha) while the average area per household in Mbozi was 0.2 ha. Other district grew little cabbage (Chart 3.31, Map 3.21 & 3.22). Despite Mbeya urban having the second smallest planted area (50 ha), the yield of cabbage was much higher (14 t/ha) compared to Mbeya Rural (5 t/ha), Ileje and Mbozi (2 t/ha each). The total production of cabbage in Mbeya for the 2007/08 agricultural year was 1,731 tonnes.

3.4.6 Other Annual Crop Production

The other annual crops were cash crops. An area of 7,919 ha was planted with other annual crops and tobacco was the most prominent (6,328 ha, 79.9%) followed by pyrethrum (1,575 ha, 19.9%) and lastly cotton (16 ha, 0.2%), (Table 3.11).

Tobacco

The quantity of tobacco produced was 6,646 tonnes. Tobacco had a planted area of 6,328 hectares, giving an average of 1.1 tonnes per hectare. Tobacco production was concentrated mainly in Chunya

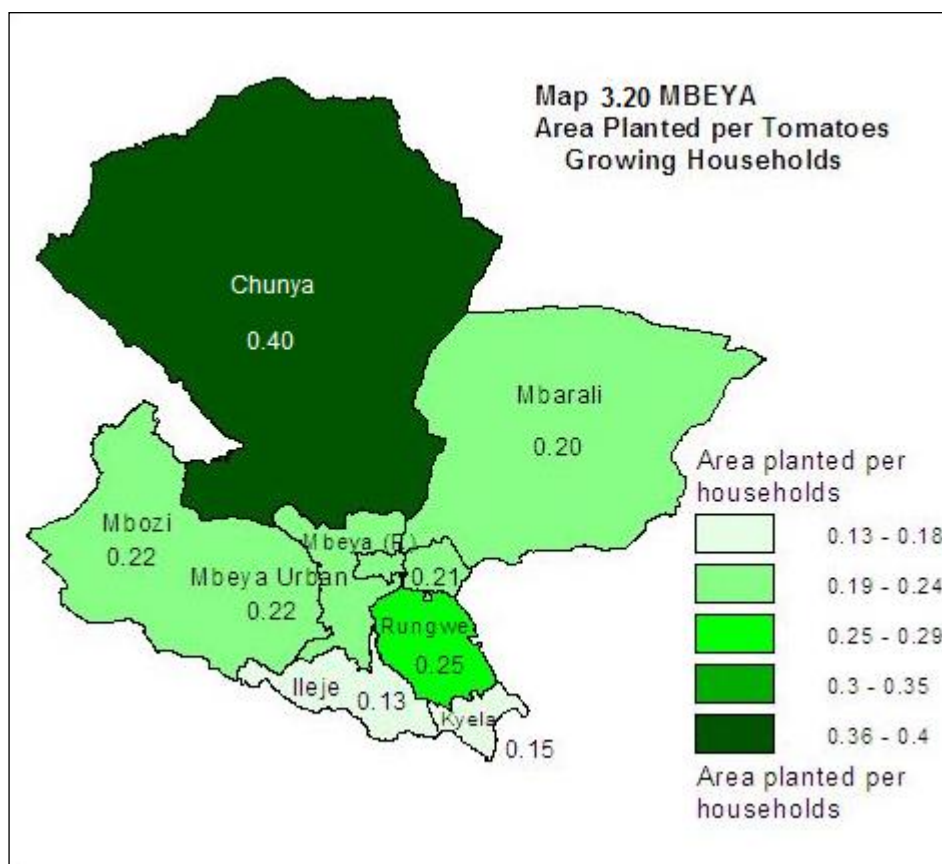
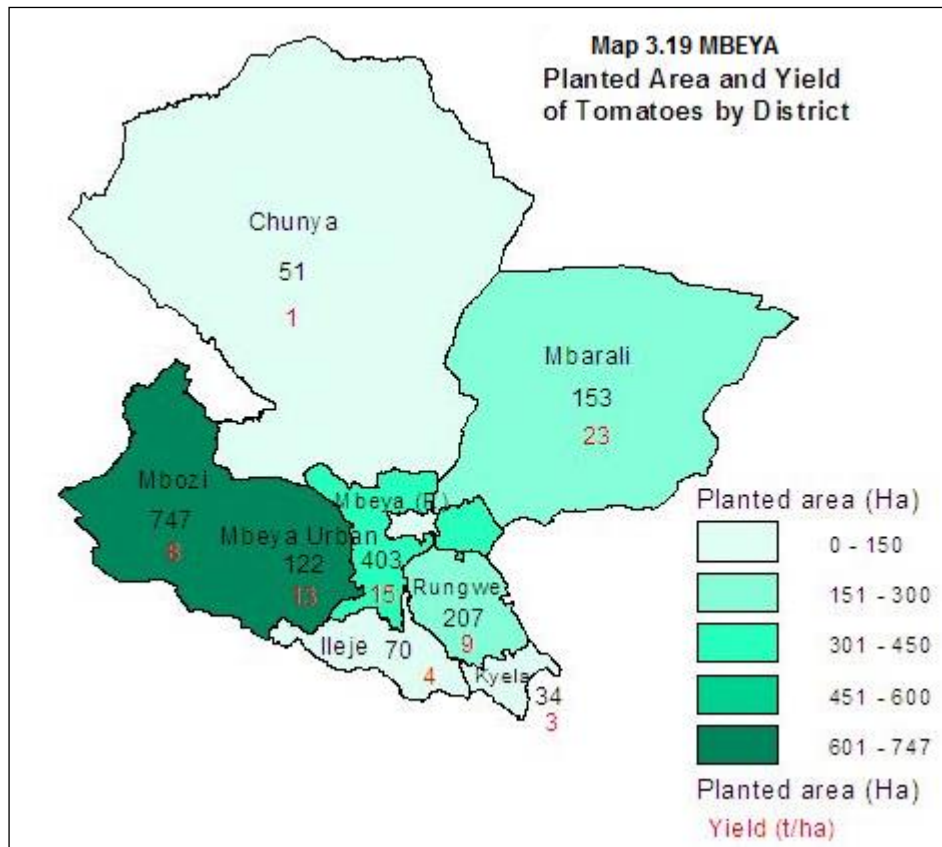
Table 3.11: Area, Production and Yield of Other Annual Crops

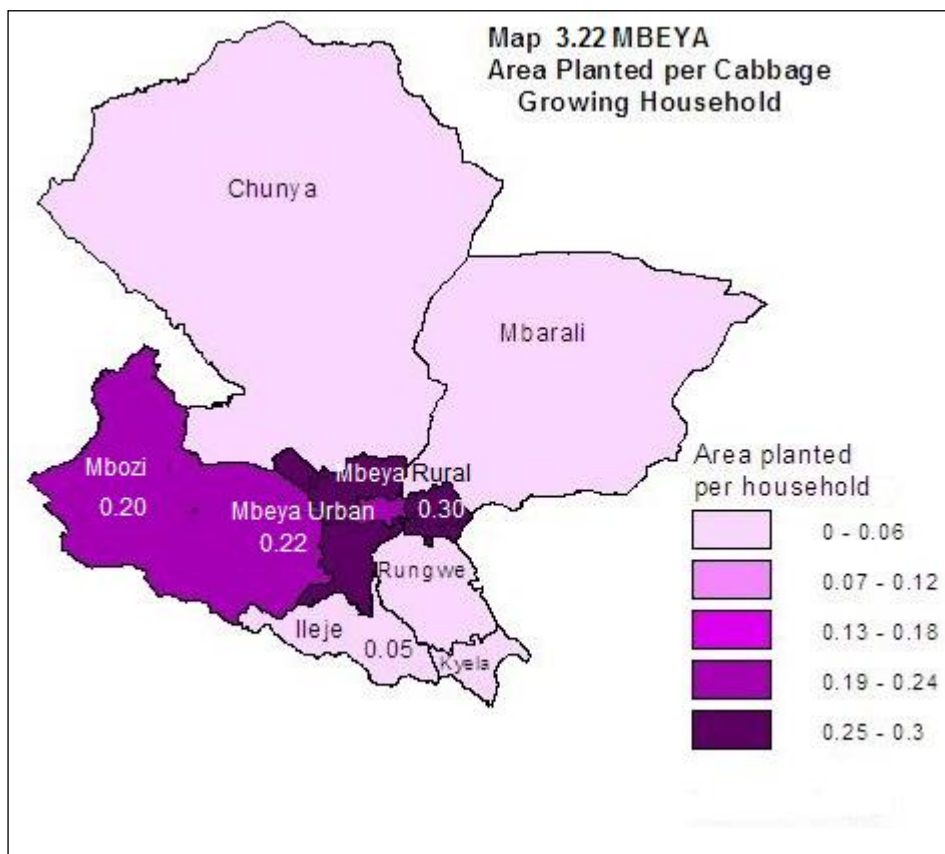
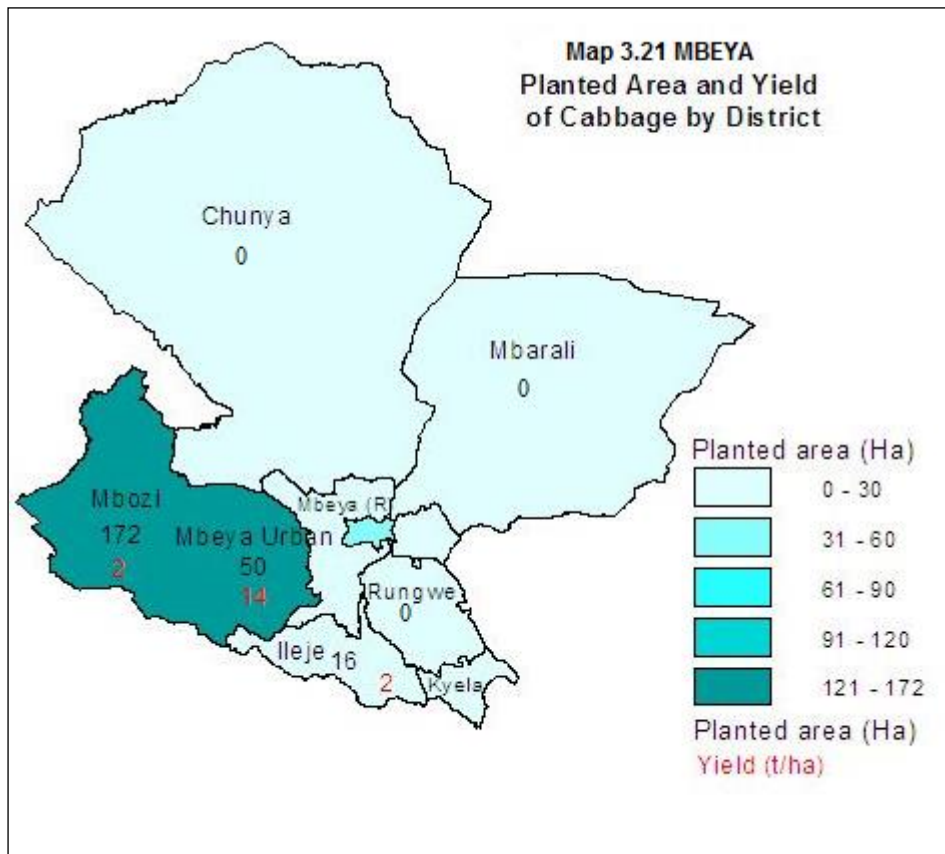
Crop	Number of household	Planted area (Ha)	Quantity harvested (t)	Yield (t/ha)
Cotton	79	16	2	0.15
Tobacco	5,983	6,328	6,646	1.05
Pyrethrum	5,719	1,575	688	0.44
Total	11,781	7,919	7,337	

which had 97 percent of the total area planted with tobacco in the region, followed by Mbozi 1.8% and Rungwe 1.3% (Map 3.30). However, the production of tobacco doubled from 3,606 tonnes in 2003 to 6,646 tonnes in 2008. This was mainly attributed to doubling of tobacco planted area from 3,733 ha to 6,328 ha.

Pyrethrum

Only 688 tonnes of pyrethrum were produced in Mbeya Region on a planted area of 1,575 ha. Pyrethrum was produced during both the wet and dry seasons. The crop was grown in Mbeya Rural district only with an average yield of 0.44 t/ha, (Table 3.11).



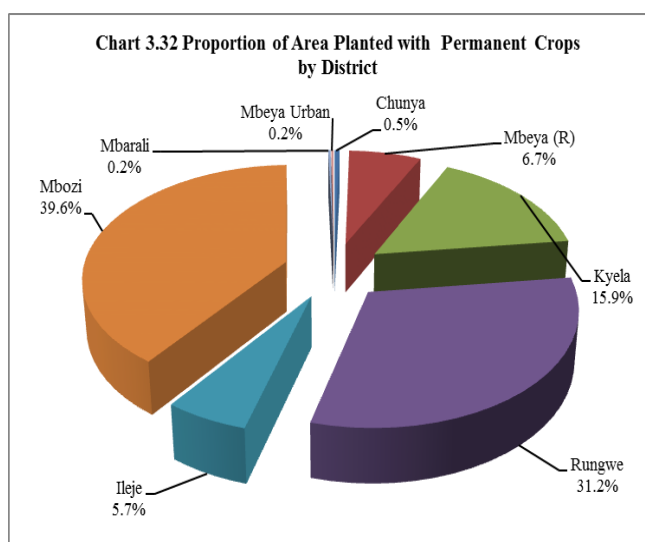


3.5 Permanent Crops

Permanent crops (perennial crops) are crops that normally take over a year to mature and once mature can be harvested for a number of years. For most crops, it is easy to determine if they are annual or permanent, for crops like cassava and banana the distinction is not so clear. Cassava has varieties that mature within a year and produce only one harvest, whilst other varieties survive for more than one year and produces several harvests. For example, bananas normally take less than a year to mature, survive for more than one year and are thus treated as a permanent crops.

The most important permanent crop in Mbeya region was coffee which had a planted area of 63,293ha (47% of the planted area of all permanent crops) followed by banana (32,459 ha, 24%) and mango (6,040 ha, 4%). Other crops include tea (2%), palm oil (2%), coconut (2%), cashew (1%), sugar cane (1%), orange, pigeon peas and others (17%).

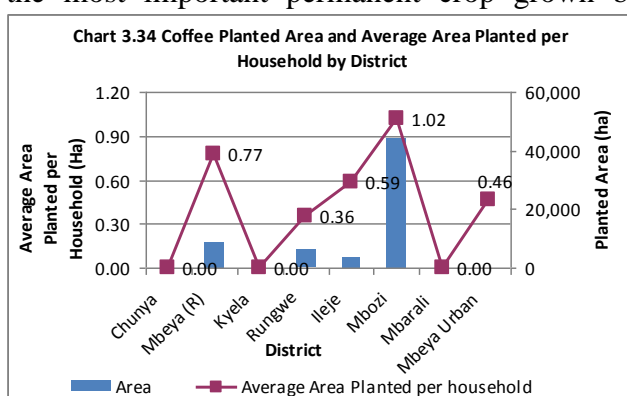
Mbozi district had the largest area under smallholder permanent crops (53,831 ha, 39.6%). This was followed by Rungwe (42,476 ha, 31.2%), Kyela (21,602 ha, 15.9%), Mbeya Rural (9,044 ha, 6.7%) and Ileje (7,772 ha, 5.7%). Other districts had smaller area planted with permanent crops (Chart 3.32)



3.5.1 Coffee

The total production of coffee by smallholders was 30,626 tonnes with an average yield of 0.7 t/ha. In terms of area planted, coffee was the most important permanent crop grown by smallholders in the region. It was grown by 79,175 households (17.5% of the total crop growing households). The total area under coffee was 63,293 ha, with an average of 0.8 ha per household.

Mbozi district had the largest area planted with coffee in the region (44,484 ha, 70.3%) followed by Mbeya Rural (8,609 ha, 13.6%), Rungwe (6,269 ha, 9.9%), and Ileje (3,774 ha,



6.0%). No coffee was grown in Chunya, Kyela and Mbarali districts. Mbozi also had the largest coffee planted area per household (1.02 ha), followed by Mbeya Rural (0.77 ha), Ileje (0.59 ha) and Rungwe (0.36 ha), (Chart 3.34).

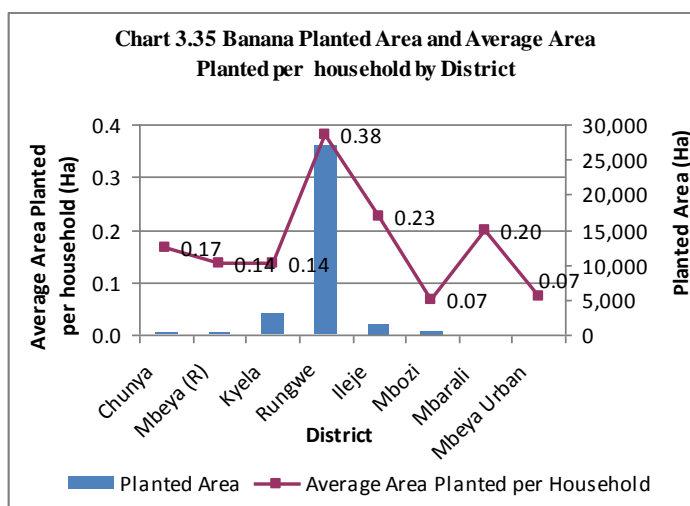
The production of coffee shows a 6.4 percent increase in planted area between the two census years. However, despite this increase, coffee production decreased by about 69 percent from 98,841 tonnes to 30,626 tonnes. Production per hectare also decreased from 2.5 t/ha to 0.7 t/ha, (Table 3.12).

Table 3.12: Coffee Production Trend

Year	Area Harvested (ha)	Quantity Harvested(Tonnes)	Yield (t/ha)
2002/03	59,460	98,841	1.7
2007/08	46,245	30,626	0.7

3.5.2 Banana

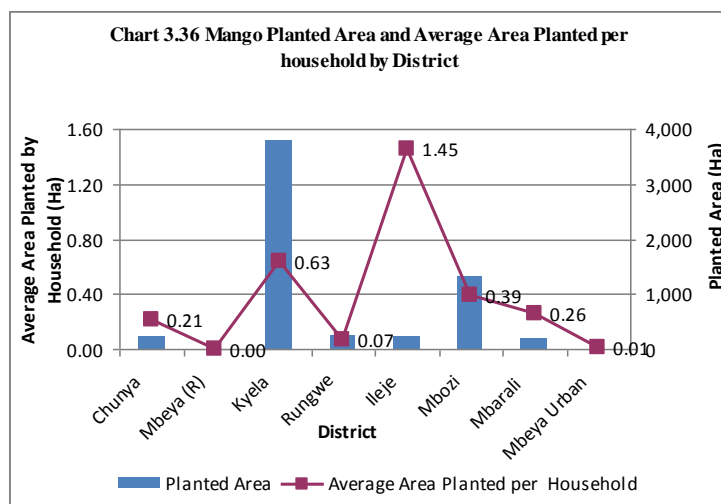
The total production of bananas by smallholders was 170,787 tonnes. In terms of area planted, banana was the second most important permanent crop grown by smallholders in the region. It was grown by 110.652 households (33.6% of the total crop growing households). The average area planted with banana per banana growing household was 0.29 ha per banana growing and the average yield obtained by smallholders was 7.4t/ha from a harvested area of 23,103 hectares. Rungwe district had the largest area of banana in the region (26,906 ha, 82.9%) followed by Kyela (3,047 ha, 9.4%), Ileje (1,561 ha, 4.8%) and Mbozi (456 ha, 1.4%). Other districts had small area planted with banana (Chart 3.35).



The average area planted with banana per banana growing household was highest in Rungwe (0.38 ha) followed by Ileje (0.23 ha), Mbarali (0.2 ha), Chunya (0.17 ha), Mbeya Rural and Kyela (0.14 ha each). Mbozi and Mbeya Urban (0.07 ha each) had the least areas (Chart 3.35), (Map 3.35 and 3.36). The total yield of banana declined from 225,241 tonnes in 2003 to 170,787 tonnes in 2008 (equivalent to -24%).

3.5.3 Mangoes

The total production of mangoes by smallholders was 6,119 tonnes. In terms of area planted, mangoes were the third most important permanent crop grown by smallholders in the region. It was grown by 15,371 households (3.4% of the total crop growing households). The average area planted with mangoes per household was relatively small at around 0.39 hectares per mango growing household and the average yield obtained by smallholders was 16.1 tonnes/ha from a harvested area of 379 hectares. Kyela district had the



largest area of mangoes in the region (3,792 ha, 63%) followed by Mbozi (1,328 ha, 22%). Other districts had small area under mango. Nonetheless, Ileje had largest area planted per household (1.5 ha), followed by Kyela (0.63 ha), Mbozi (0.39 ha) Mbarali (0.26 ha), Chunya (0.21 ha), Rungwe (0.07 ha), Mbeya Rural and Mbeya Urban (each 0.01 ha), (Chart 3.36).

3.5.4 Coconut

The total production of coconuts by smallholders was 467 tonnes. In terms of area planted, coconut had a planted area of 2,481 ha giving an average yield of 38.9 tonnes per ha. Most of the coconuts were grown in Mbozi district.

3.5.5 Palm Oil

Palm oil was planted on 2,461 hectares giving a production of 3,705 tonnes. Kyela had the largest palm oil planted area (2,277 ha, 92.5%). The other district that grew palm oil was Rungwe where a total of 184 hectares (7.5% of total area planted with palm oil in the region) were planted. The average yield was 3.7 t/ha.

3.5.6 Tea

Tea was grown by 7,644 households of which 113 households were in Kyela and the remaining 7,551 were in Rungwe. Tea was grown in a total area of 2,663 ha, 99.9% of the planted area was in Rungwe.

3.5.7 Oranges

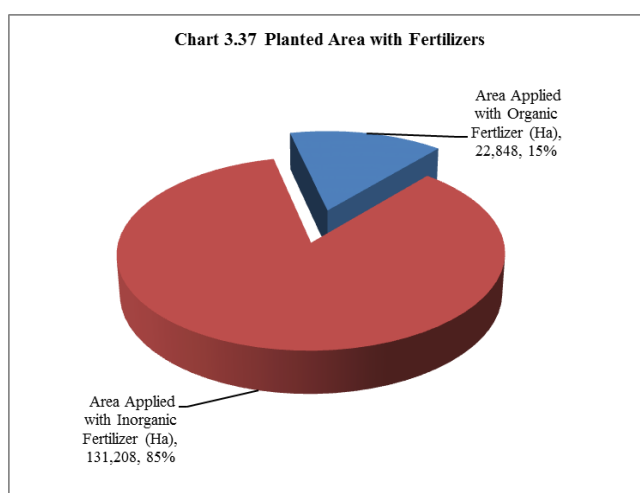
Oranges were an important fruit crop grown in Mbeya and it was cultivated by 5,195 households. The total planted area was 470 hectares and most of the oranges were grown in Kyela, Ileje Mbozi. In 2007/08 agricultural year the total yield of oranges was 3,520 tonnes. However, the average planted area per household was 0.1 hectares.

3.6 Input Use

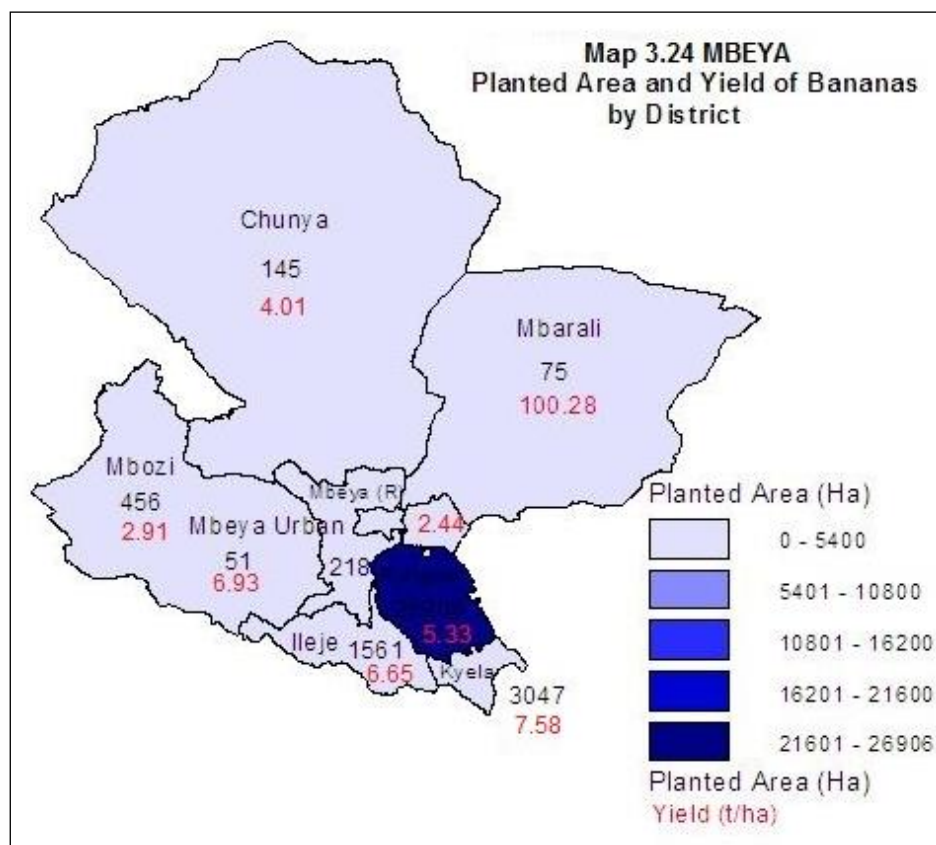
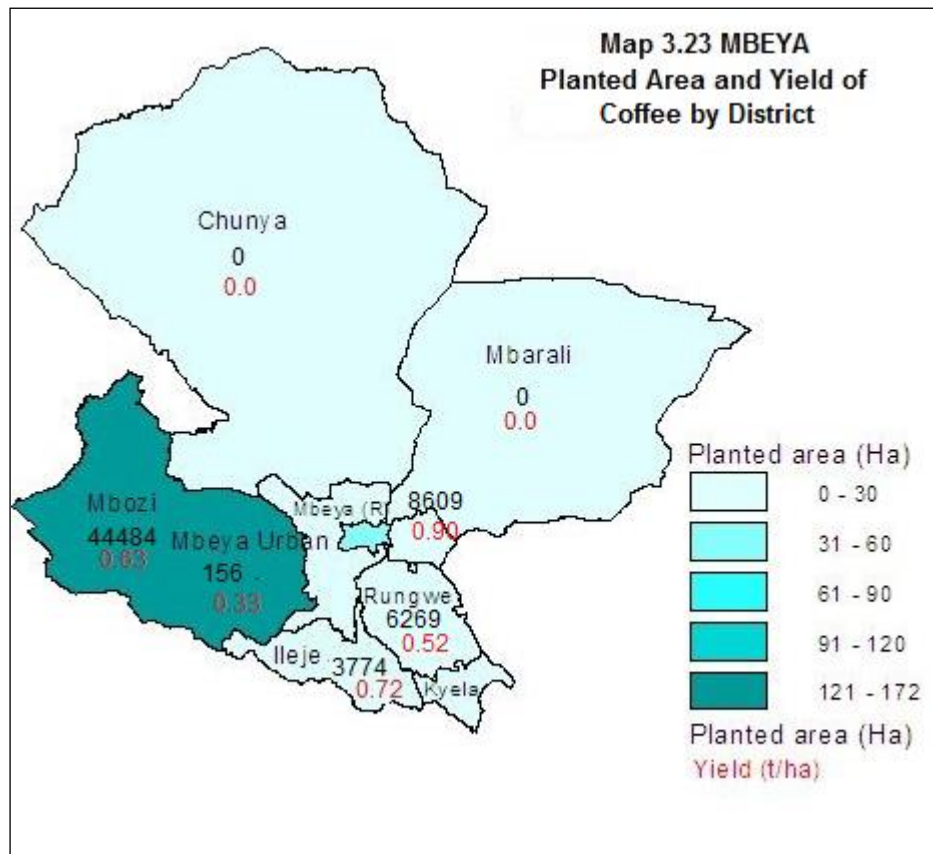
3.6.1 Fertilizer Use

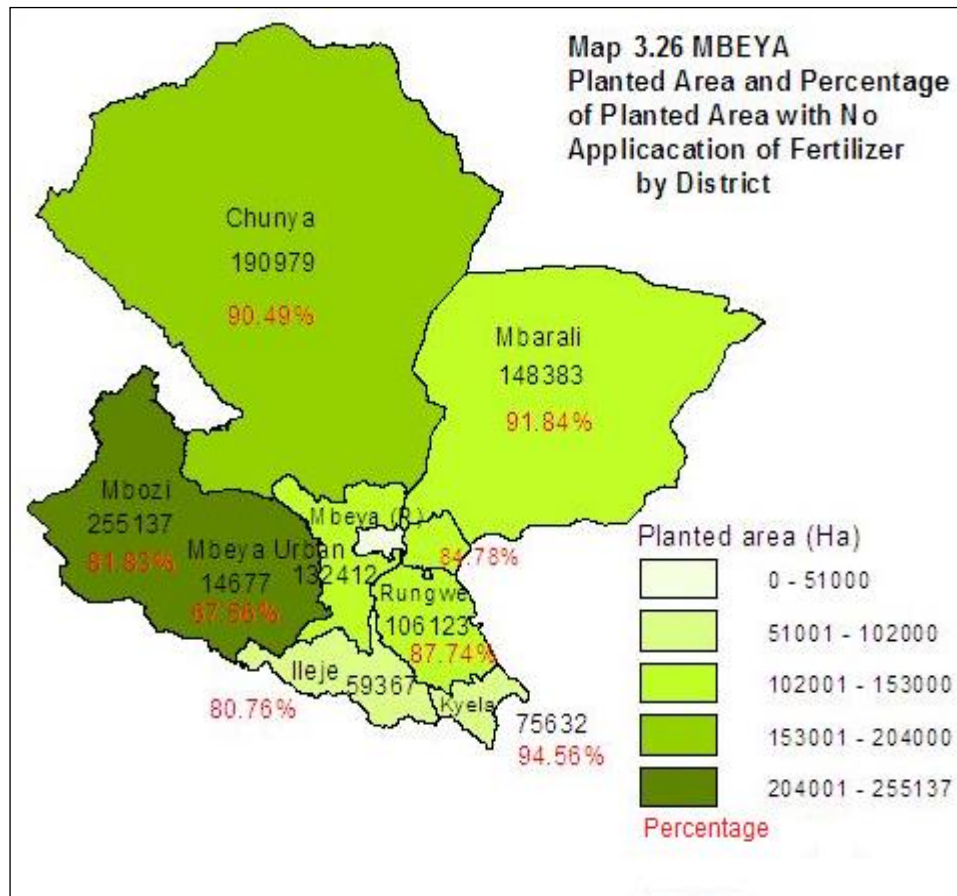
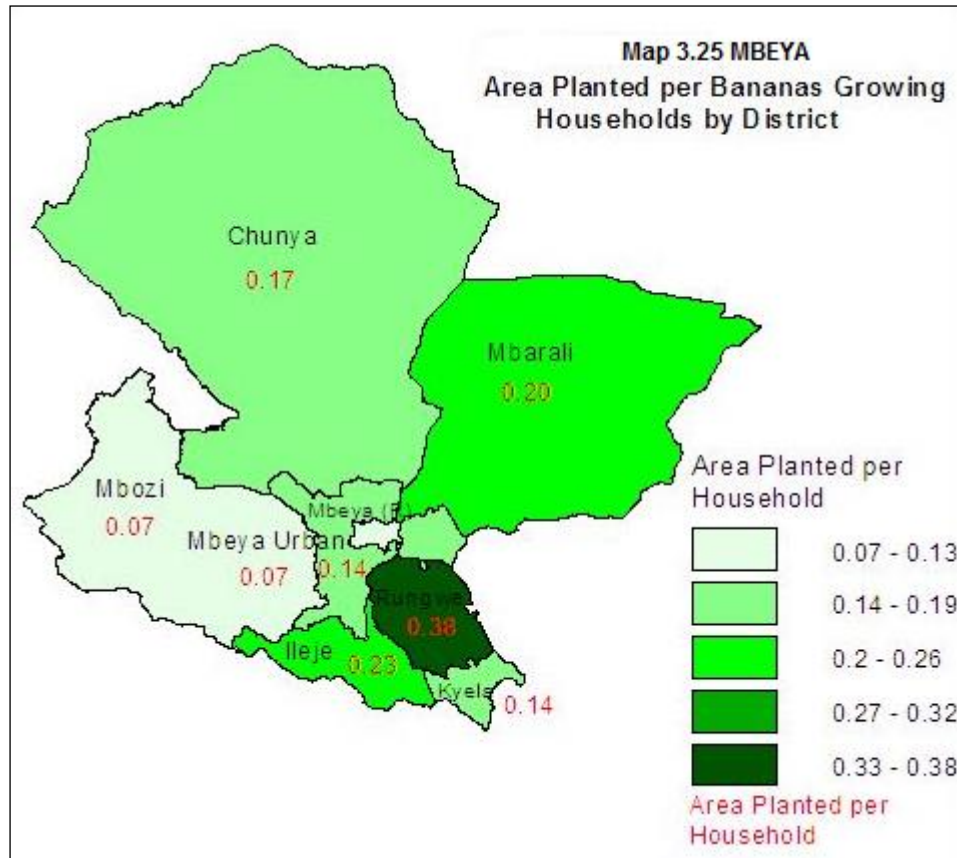
Both inorganic and organic fertilizers were used in agricultural production in Mbeya region. However, the area planted with inorganic fertilizer was larger (131,207 ha, 85% of the total area applied with fertilizer) than the area planted with organic fertilizer (22,848ha, 15%) (Chart 3.37)

Kyela District had the highest proportion of area planted with no fertilizer application (89.12%) followed by Mbarali (83.68%), Chunya (81.00%), Rungwe (75.48%), Mbeya Rural (69.56), Mbozi (63.65%), Ileje (61.52%) and Mbeya Urban (35.12%). The total area planted with organic fertilizer was 22,848 ha. Out of all the districts in the region Ileje District had the largest area planted with organic fertilizer



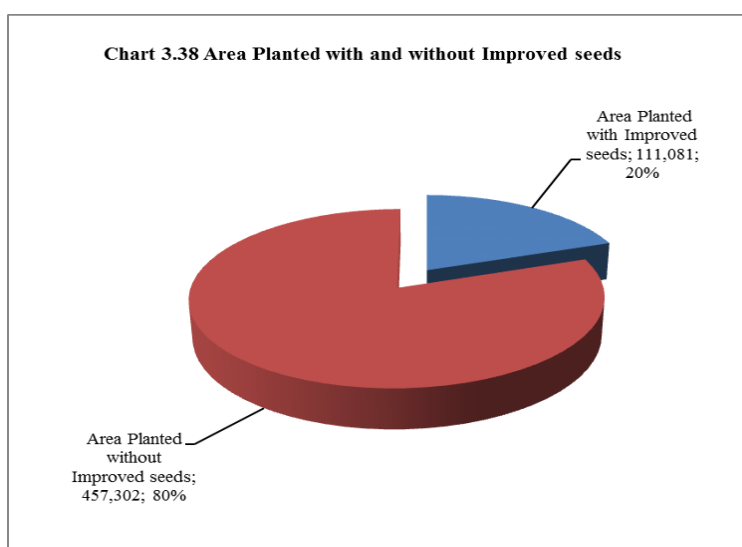
(4,694 ha, 21.54%) followed by Rungwe (4,431ha), Chunya (3,653 ha), Mbeya Rural (3,107 ha), Mbozi (2,614 ha), Mbarali (1,674 ha), and Kyela (1,571 ha) while Mbeya Urban had the smallest area (1,105 ha).





3.6.2 Use of improved seeds

Of the total area planted with annual crops in the region only (111,081 ha, 20%) were planted with improved seeds. The remaining 457,382 ha (80%) were planted without using improved seeds (Chart 3.38). Mbozi District had the largest area planted with improved seeds (45,024 ha, 41%) while Kyela had the smallest area (422 ha, 0.4%). However, in



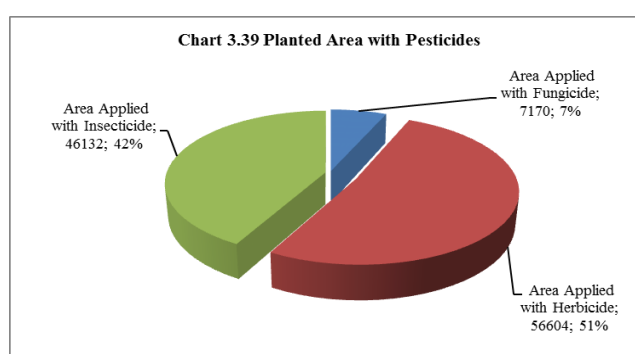
terms of proportion Mbeya Urban recorded the highest percentage (43%) of area planted with improved seeds while Kyela had the lowest percentage with only one (1%) percent of the area planted. Also, Kyela had the highest percentage of the area planted without improved seeds (99%) while Mbeya Urban recorded the lowest percent (57%), (Table 3.13).

Table 3.13: Area Planted with Improved Seeds by District

District	Planted Area with Improved Seeds		Planted Area without Improved Seeds	
	Area (ha)	%	Area (ha)	%
Chunya	28,993	27	76,527	73
Mbeya (R)	8,665	11	69,428	89
Kyela	422	1	39,568	99
Rungwe	8,220	14	52,255	86
Ileje	3,965	11	32,790	89
Mbozi	45,024	29	110,880	71
Mbarali	11,162	14	69,623	86
Mbeya Urban	4,631	43	6,231	57
Total	111,081	20	457,302	80

3.6.3 Use of Pesticides

Pesticides are chemicals used to control insects, diseases and weeds. This section analyses the use of these chemicals by smallholders on both annual and permanent crops in the region. Pesticides were applied to a planted area 109,905 ha of annual crops and vegetables. The most common pesticide used in the region was herbicide (51%) of the total area applied with pesticides followed by insecticide (42%) and lastly fungicide (7%), (Chart 3.39).



In Mbeya region the total area planted with annual crops was 568,383 ha out of which 19% of the area was applied with pesticides

The largest planted area applied with pesticides, was applied with herbicides (56,604 ha) followed by insecticides (46,132 ha) and fungicides which were applied on an area of 7,170 ha

Generally, application of the three types of pesticides varied across districts. Mbeya Rural had the largest area applied with fungicides (2,641 ha) and the smallest area was recorded in Kyela (69 ha). Mbozi had the largest area applied with herbicides (29,950 ha) while Mbeya Urban recorded the smallest area (471 ha).

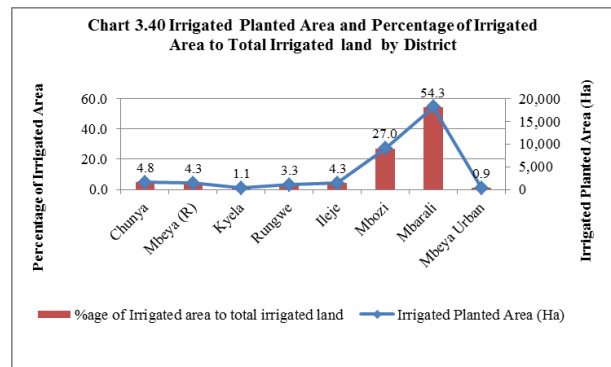
Mbozi also had the largest planted area applied with insecticides (19,029 ha). Kyela had the smallest planted area applied with insecticides (391 ha).

3.7 Irrigation

Water is the limiting factor to crop production in the majority of areas in Tanzania and without water most other agricultural practices applied to crops do not result in significant increases in yields. This section deals with the area under irrigation and the means by which water was extracted from the source and applied to the field.

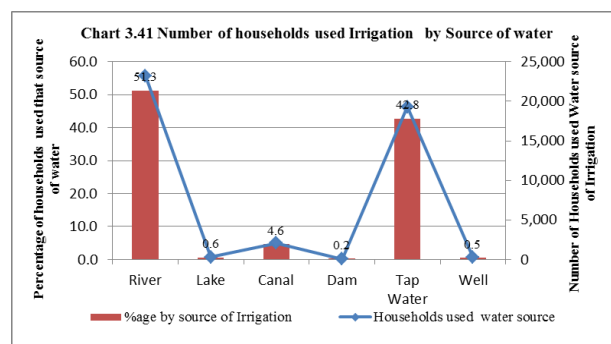
3.7.1 Area Planted with Annual Crops and Under Irrigation

In Mbeya region, the area of annual crops under irrigation was 33,418 hectares representing 5.9 percent of the total planted area in the region. The district with the largest planted area under irrigation for annual crops was Mbarali (18,142 ha, 54.3% of the total planted area irrigated in the region). This was followed by Mbozi (9,022 ha, 27%), Chunya (1,602 ha, 4.8%), Ileje (1,452 ha, 4.3%), Mbeya Rural (1,425 ha, 4.3%), Rungwe (1,097 ha, 3.3%), Kyela (366 ha, 1.1%) and Mbeya urban (312 ha, 0.9%), (Chart 3.40).



3.7.2 Sources of Water Used for Irrigation

The main source of water used for irrigation was the river (51.3% of all households with irrigation). This was followed by tap water (42.8%), canals (4.6%) and lake (0.6%). Few households (0.2%) used water from dams, (Chart 3.41).



A total of 12,742 households in Mbarali district used river as the main source of water for irrigation. It was followed by Ileje (3,065 hh), Mbozi (2,554 hh), Mbeya Rural (1,432 hh), Chunya (1,124 hh) and Kyela (1,016 hh). The remaining districts had fewer households (less than 1,000) that used river as source of water for irrigation. Tap water was the second source of water for irrigation. Mbarali district had most of the households (10,345) that used tap water as source of water for irrigation. It was followed by Mbozi district (6,527 hh) and Mbeya Rural (1,910 hh). Other districts had insignificant number of households that used tap water for irrigation.

3.8 Crop Storage and Marketing

3.8.1 Crop Storage

There was a total of 519,454 households that reported to have stored crops in Mbeya region with Rungwe having the largest number of households reporting (147,137, 28%) and Mbeya Urban had the smallest number of households reporting (12,226, 2%). In all districts, except Rungwe, the largest number of households (546,884) stored their crops using sacks/open drum.

3.8.2 Methods of Storage

Crop storage by using sacks/open drum had the largest number of households in Mbeya region (616,391) followed by locally made traditional structures (301,413). Other methods of crop storage were used to a lesser extent. Modern stores were used by the smallest number of households (2,235)

3.9 Marketing

3.9.1 Households Selling Crops

A total of 404,512 households out of 528,853 accounting for 76.5% households sold their crops. Mbeya Rural district had the largest proportion (89.3% of households reported selling crops). It was followed by Mbarali (89.1%), Mbozi (87.1%), Kyela (86.3%), Mbeya urban (81.3%), Chunya (77.4%) and Ileje (72.4%).

3.9.2 Main Crop Marketing Problems

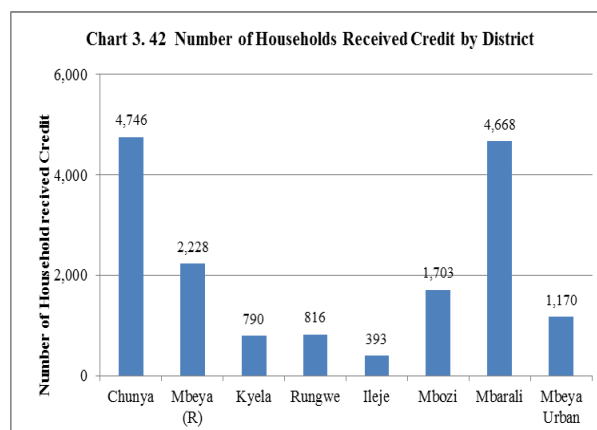
Various problems are faced by households during marketing of crops. Too low prices in the open market were considered to be the main problem by 525,405 households (99.3% of households selling crops in short and long rainy seasons). Other problems mentioned include market too far (37,658 hh, 7.1%), transport cost too high (27,902 hh, 5.3%), lack of market information (13,492 hh, 2.6%) and no buyers (5,048 hh, 1.0%)

3.10 Access to Crop Production Services

3.10.1 Source and Access to Agricultural Credit

The census results show that in Mbeya region very few agricultural households (16,513, 3.6% of all agricultural households) accessed credit.

The major agricultural credit provider in Mbeya region was cooperatives (4,194 hh, 25.4%), followed by savings & credit societies (3,398 hh, 20.6%), family, friends or relatives (3,315 hh, 20.1%). Others were private individuals (1,762 hh, 10.7%), banks (1,403 hh; 8.5%), NGOs (1,285 hh, 7.8%) and traders/trading stores (621 hh, 3.8%).

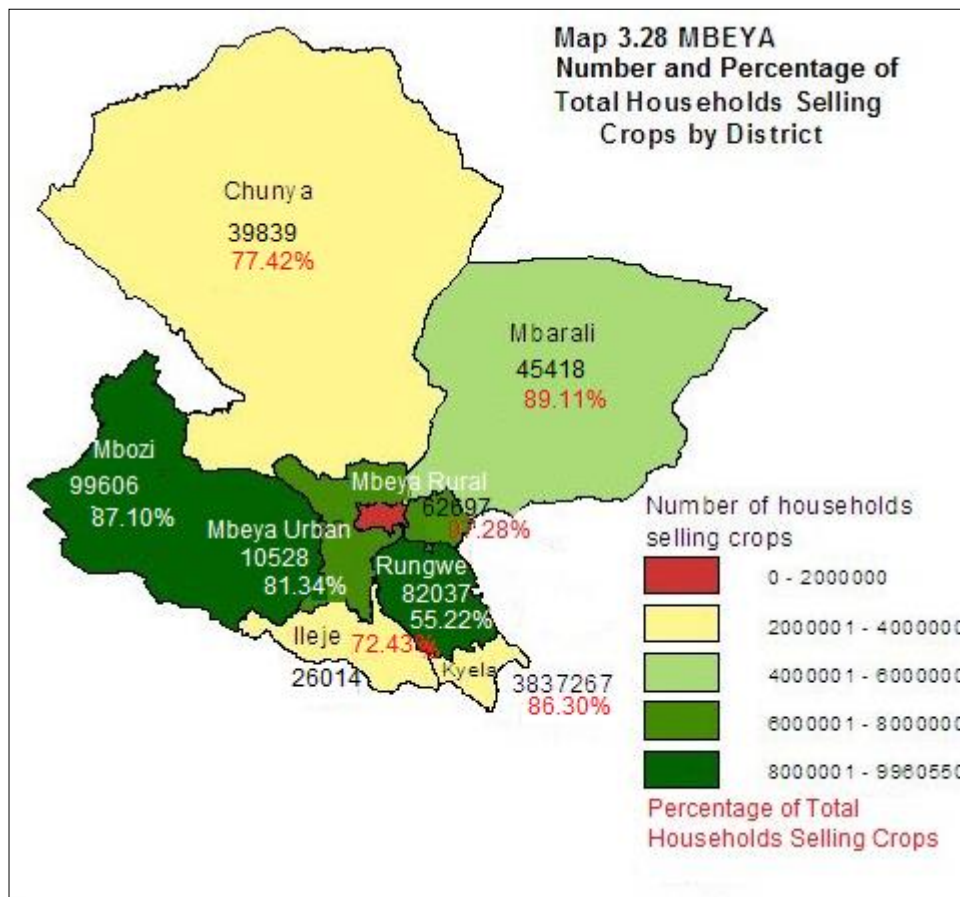
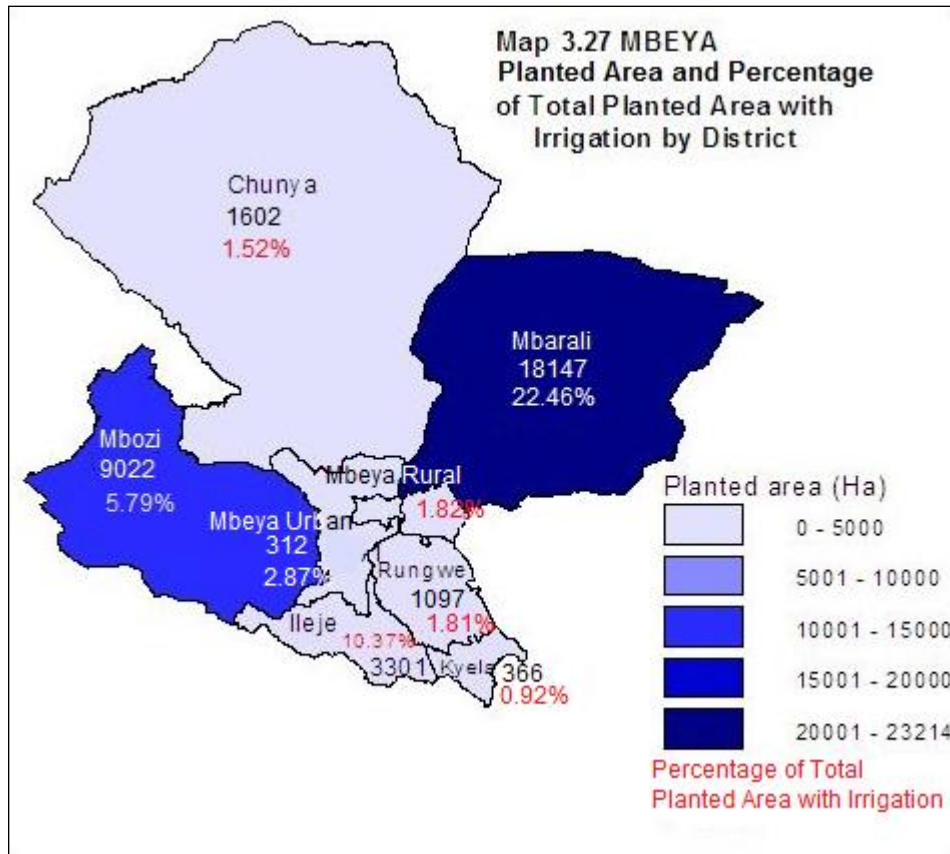


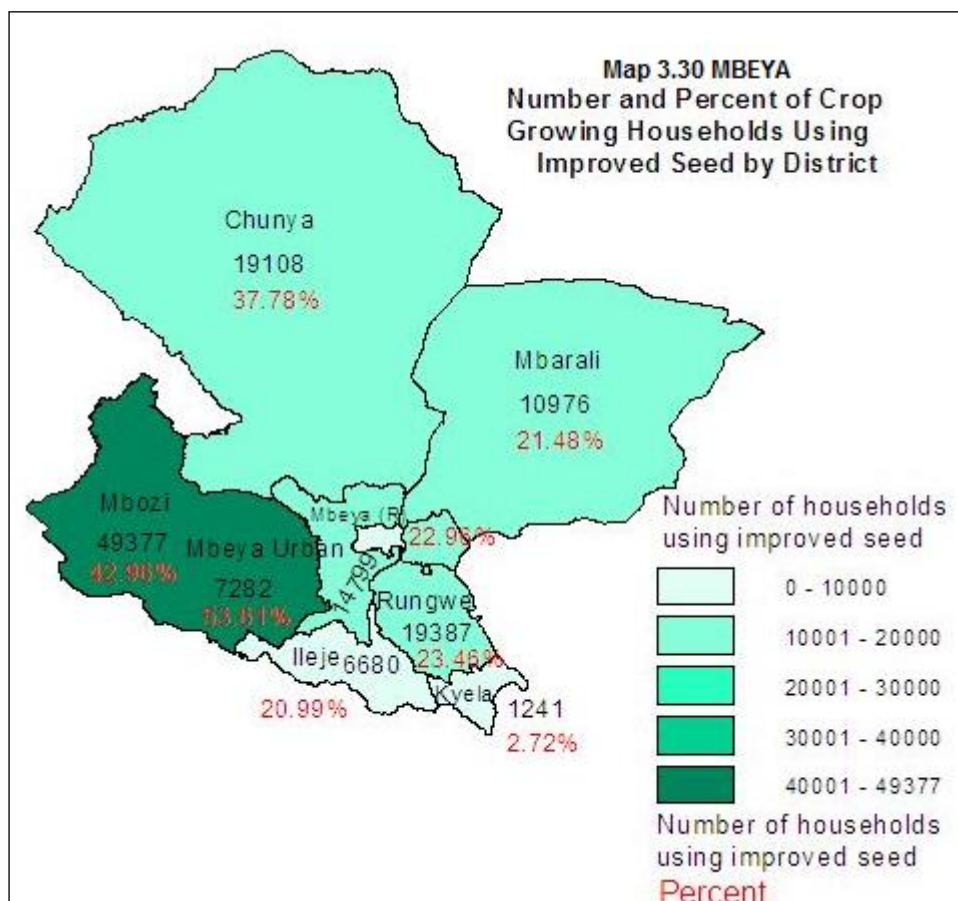
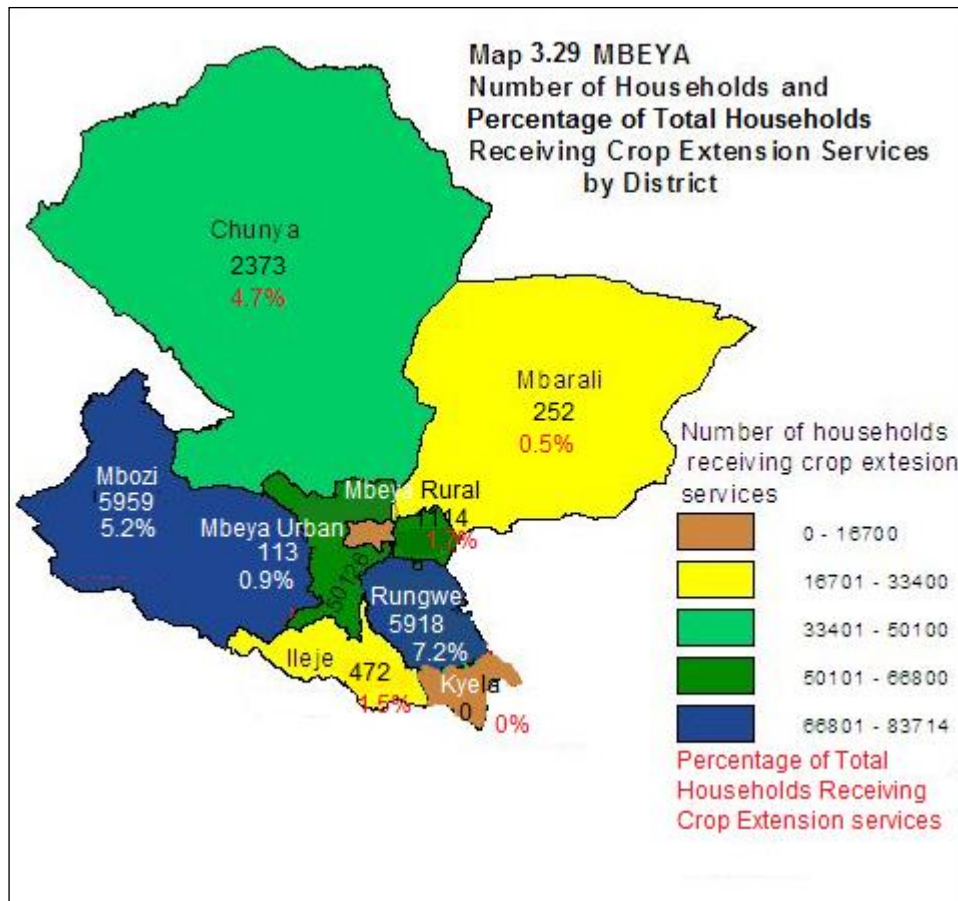
The largest number of households that received credits was in Chunya district (4,746 hh). This was followed by Mbarali (4,668 hh), Mbeya Rural (2,228 hh), Mbozi (1,703 hh), Mbeya Urban (1,170 hh), Rungwe (816 hh), Kyela (790 hh) and Ileje district (393 hh), (Chart 3.42).

3.10.2 Crop Extension Services

The number of Agricultural households that received crop extension was 354,483, accounting for 78.2 percent of total crop growing households in the region. Rungwe district ranked highest in terms of percentage of household receiving extension advices (93.3 %). This was followed by Ileje (86.2%). The district with the lowest percentage was in Mbarali (64.8%).

The main crop extension provider was the government which provided service to about 83.5 percent of all households receiving crop extension services. It was followed by neighbours (32.8%), Radio/TV or Newspaper (17.3%), NGO/Development project (10.5%), large scale farmer (5.3%) and cooperatives (4.7%).





3.11 Livestock Result

3.11.1 Cattle Production

Mbeya region had a total of 870,218 cattle and these were kept by 168,859 households. Most of these households (135,544) kept indigenous cattle (787,912), which accounted for 90.5% of the total cattle population. Besides, 37,660 households kept 72,724 (8.4%) improved dairy cattle while only 3,598 households kept 9,582 (1.1%) improved beef cattle, (Table 3.14).

Table 3.14: Number of Cattle by Type and District as of 1st October 2008

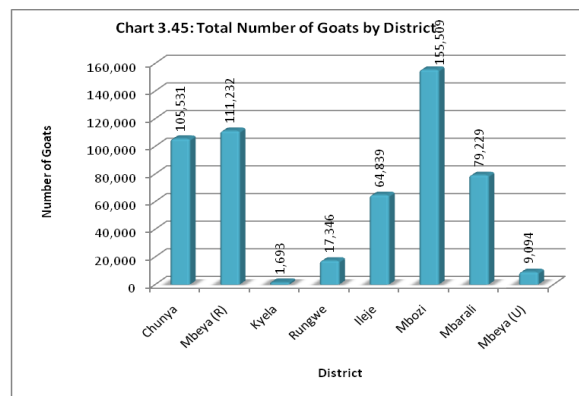
District	Indigenous			Improved Beef			Improved Dairy			Total		
	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%
Chunya	10,241	140,874	99.8	0	.	-	250	250	0.2	10,366	141,124	100
Mbeya (R)	20,528	95,160	90.9	318	3,501	3.3	2,864	6,047	5.8	22,597	104,708	100
Kyela	20,202	85,887	98.8	113	113	0.1	564	903	1.0	20,428	86,903	100
Rungwe	17,346	43,672	42.6	2,449	4,286	4.2	29,591	54,487	53.2	45,304	102,445	100
Ileje	14,382	59,730	99.7	0	.	-	157	157	0.3	14,461	59,888	100
Mbozi	38,026	187,292	96.5	568	1,419	0.7	2,270	5,392	2.8	39,161	194,103	100
Mbarali	13,121	169,938	99.3	0	.	-	378	1,262	0.7	13,373	171,200	100
Mbeya Urban	1,698	5,358	54.4	151	264	2.7	1,585	4,226	42.9	3,170	9,848	100
Total	135,544	787,912	90.5	3,598	9,582	1.1	37,660	72,724	8.4	168,859	870,218	100

Mbozi District had the largest number of cattle (194,103) followed by Mbarali (171,200), Chunya (141,124), Mbeya Rural (104,708), Rungwe (102,445), Kyela (86,903), Ileje (59,888) and Mbeya Urban (9,848) (Map 3.31).

Mbozi (187,292), Mbarali (169,936) and Chunya (140,874) were the three districts with largest populations of indigenous cattle while Mbeya Urban recorded the smallest number of indigenous cattle (5,358). Regarding the distribution of improved dairy cattle, most of the dairy cattle were raised in Rungwe (54,487, 74.92%) while Ileje had the smallest number (157). Rungwe (4,286) and Mbeya Rural (3,501) accounted for about 81% of the total population of beef cattle. However, Mbarali had the highest population density of cattle in the region (1,480 head per square kilometre). On the other hand, Chunya had the lowest population density.

3.11.2 Goat Production

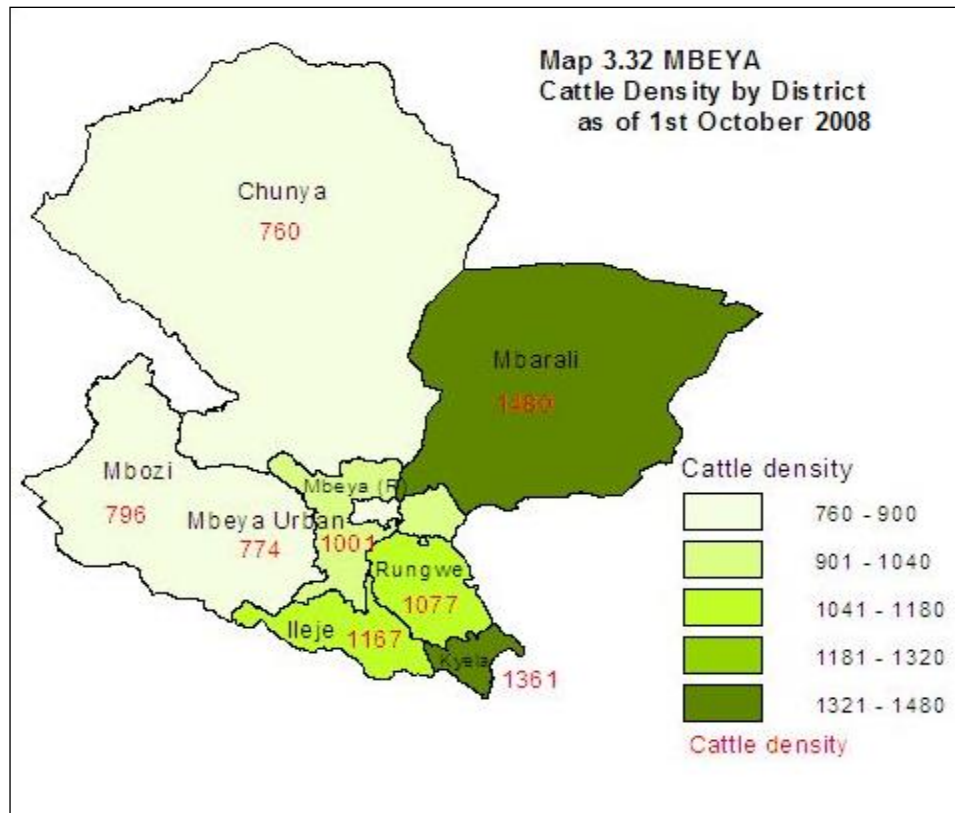
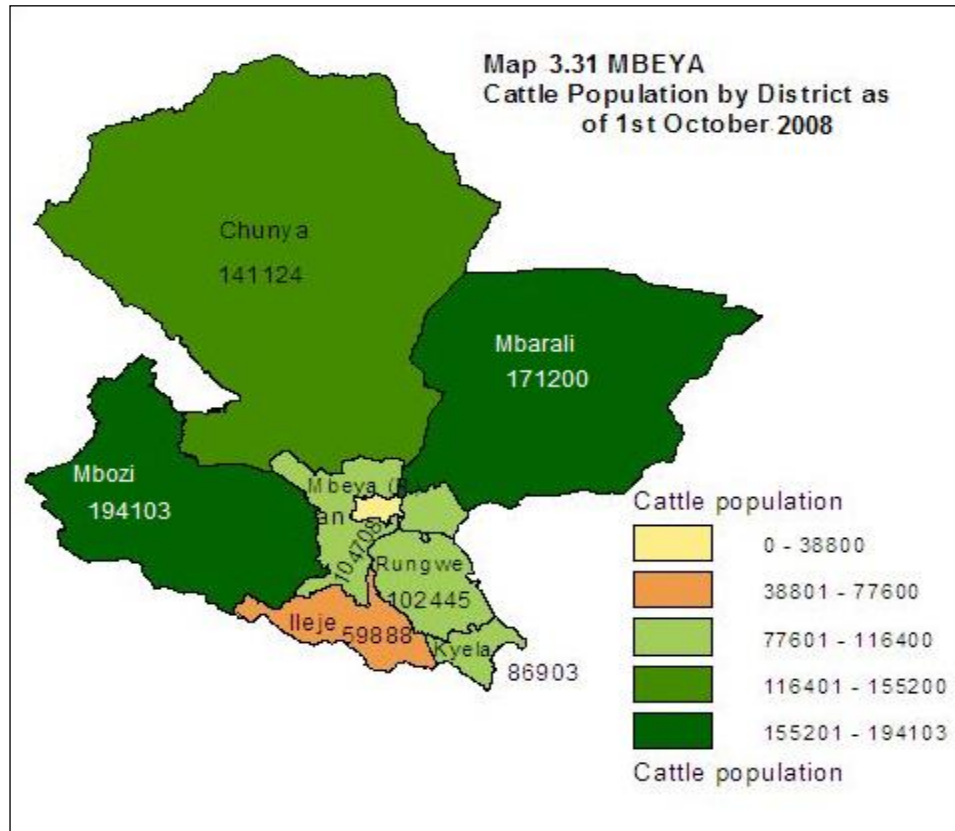
A total of 97,831 households kept 544,473 goats. Most of the goats kept in the region were of indigenous breeds accounting for 96% of the goat population while dairy goats constituted only 4%. The three districts with the largest population of goats were Mbozi (155,509) followed by Mbeya Rural (111,232), and

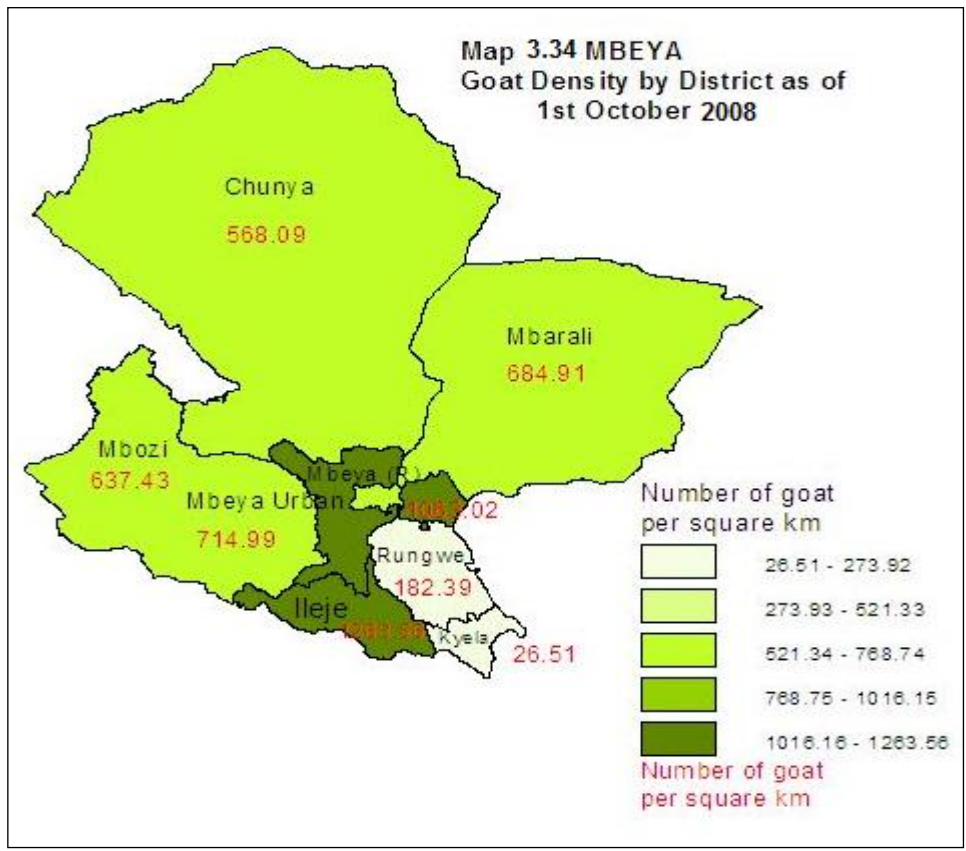
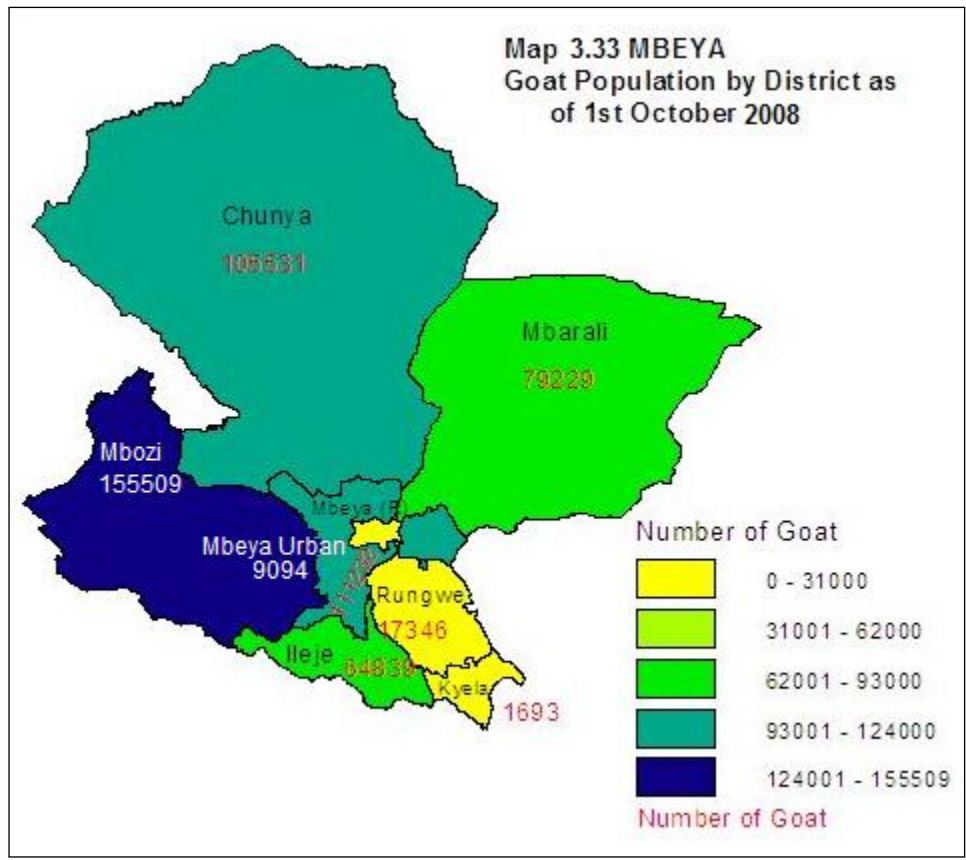


Chunya (105,531) while Kyela had the smallest population of goats (1,693). Each of the remaining districts had less than 100,000 goats, (Chart 3.45 and Table 3.15). In terms of population density, Mbeya Rural had the highest population density (1,061 goats per square kilometre) while Kyela recorded the lowest population density (27 goats per square kilometre), (Map 3.33).

Table 3.15: Number of Goats by Type and District as of 1st October 2008

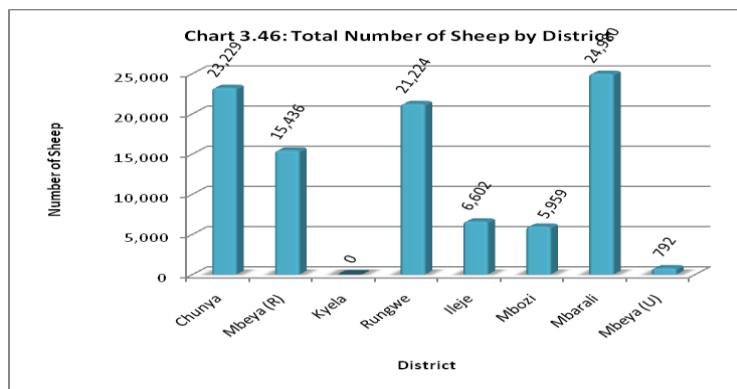
District	Indigenous			Improved for Meat			Improved Dairy			Total	
	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats
Chunya	8,243	105,531	100.0	0	.	-	0	.	-	8,243	105,531
Mbeya Rural	23,551	95,956	86.3	0	.	-	1,273	15,277	13.7	24,824	111,232
Kyela	1,241	1,693	100.0	0	.	-	0	.	-	1,241	1,693
Rungwe	6,938	17,346	100.0	0	.	-	0	.	-	6,938	17,346
Ileje	14,225	58,080	89.6	0	.	-	472	6758.98	10.4	14,697	64,839
Mbozi	32,918	154,658	99.5	0	.	-	284	851	0.5	33,202	155,509
Mbarali	6,182	78,472	99.0	126	757	1.0	0	.	-	6,308	79,229
Mbeya Urban	2,302	8,867	97.5	0	.	-	75	226	2.5	2,377	9,094
Total	95,601	520,603	96	126	757	0	2,104	23,113	4	97,831	544,473





3.11.3 Sheep Production

In Mbeya region sheep production was carried out in all districts except Kyela district. The total number of sheep was 98,222. Mbarali district had the highest number of sheep in the region (24,980 sheep, 25.4% of the regional total). It was followed by Chunya (23,229 sheep, 23.6%), Rungwe (21,224 sheep, 21.6%), Mbeya Rural (15,436 sheep, 15.7%), Ileje (6,602 sheep, 6.7%) and Mbozi (5,959 sheep, 6.1%). Very few sheep were recorded in Mbeya Urban and Kyela, (Chart 3.46).



The distribution of sheep by category shows that she sheep accounted for the highest percent of the population (47.57%) followed by ram (31.6%), female lamb (9.2%) male lamb (6.5%), and castrated sheep (5.1%). The distribution by category of sheep by district shows that Rungwe had the highest percentage of ram (96.2% of the total sheep in the district) while Mbozi had the highest percentage of castrated sheep (33.3%). Besides, the highest percent of she sheep was recorded in Mbeya Urban (85.7%) and Mbarali recorded the highest percent of male lamb (13.1%). Regarding population density of sheep, Mbeya Urban had the highest (873 sheep per sq.km) and Mbarali recorded the lowest (12.7 sheep per sq.km)

3.11.4 Pig Production

Mbeya region recorded a total of 346,466 pigs in 106,404 households. The largest number of pigs was sows/gilts (151,351) followed by she piglets (59,823), male piglets (53,119), boars (44,944), and castrated males (37,230). Distribution of the pig population by district shows that Mbozi had the largest population (117,483) followed by Chunya (65,566), Rungwe (48,569), Kyela (44,129), Mbeya Rural (31,190), Mbarali (20,564), and Mbeya Urban had the smallest population (8,905), (Chart 3.47, Table 3.16, Map 3.34). Mbeya Urban District had the highest density of pigs (700 pigs per sq.km) followed by Kyela (691), Rungwe (510), Mbozi (481), Chunya (352), Mbeya Rural (295), Mbarali (197), while Ileje had the lowest population density (196).

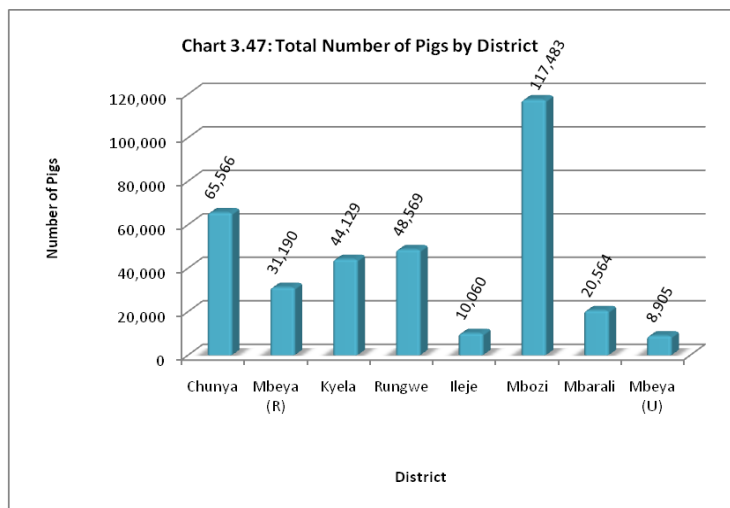
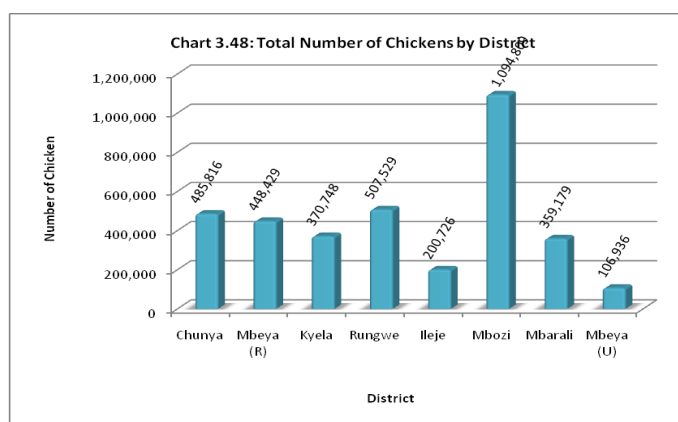


Table 3.16 :Total Number of Pigs by Type of Pig and District as of 1st October 2008

District	Pig Type					Total
	Boar	Castrated Male	Sow / Gilt	Male Piglet	She Piglet	
Chunya	12988	6744	28350	7993	9492	65566
Mbeya (R)	4297	955	17663	4615	3660	31190
Kyela	5982	7110	23024	6997	1016	44129
Rungwe	4081	6938	26121	8367	3061	48569
Ileje	943	550	6130	707	1729	10060
Mbozi	12770	13054	35188	21567	34904	117483
Mbarali	2902	1388	10724	1514	4037	20564
Mbeya Urban	981	491	4151	1358	1924	8905
Total	44944	37230	151351	53119	59823	346466

3.11.5 Chicken Production

There were 3,574,172 chickens, which were kept by 351,143 households and distributed as follows: Mbozi (1,094,809), Rungwe (507,529), and



Chunya (485,816) were the three districts with the largest populations of chicken while Mbeya Urban had the smallest number of chicken

(106,936), (Chart 3.48). Most of the chicken were indigenous (98.5%) followed by layers (1.1%), and broilers (0.5%). Kyela, Rungwe, Mbozi and Mbarali districts had the highest percentages of indigenous chicken (each over 99%) while the lowest percent was recorded in Mbeya Urban (77%), (Table 3.17).

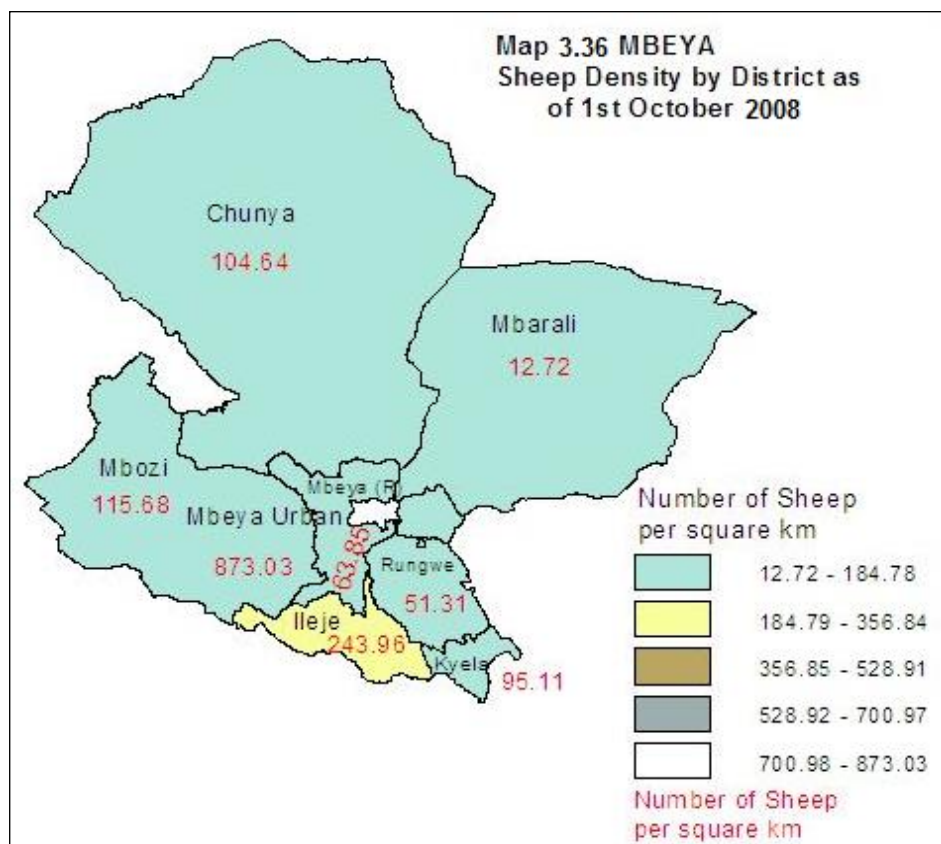
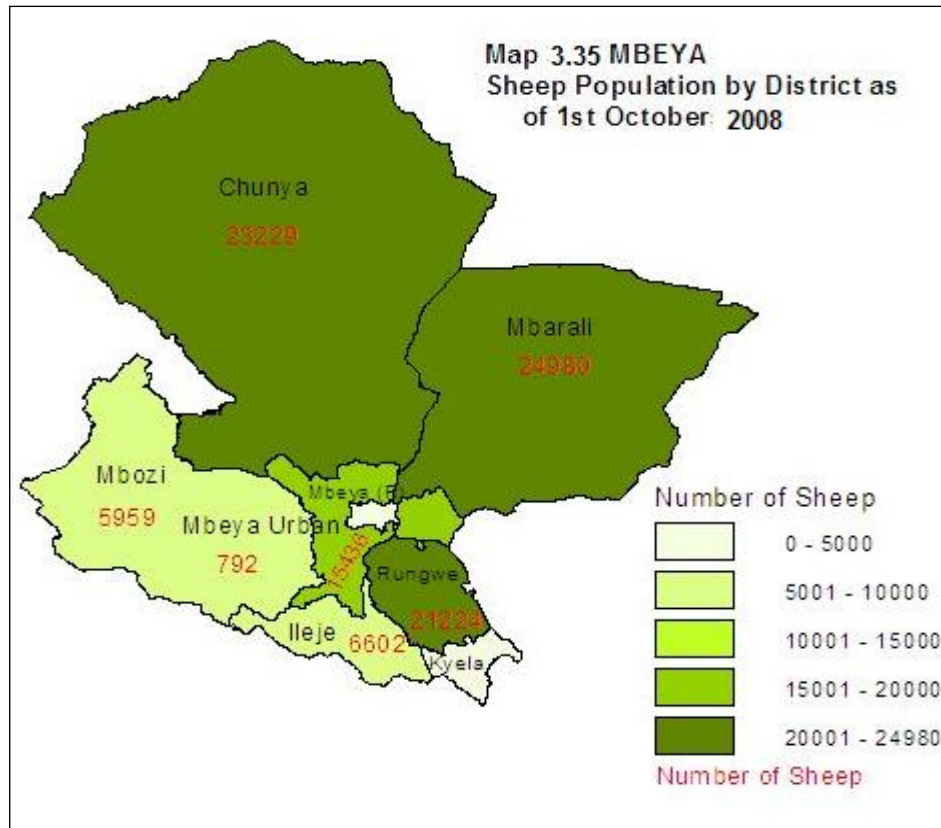
However, Mbeya Urban had the highest percent of layers (23%). The highest population density of chicken was recorded in Ileje (4,263) followed by Mbeya Rural (1,963), Mbeya Urban (714), Mbarali (684), Mbozi (637), Chunya (568), Rungwe (182) while Kyela recorded the lowest population density (26)

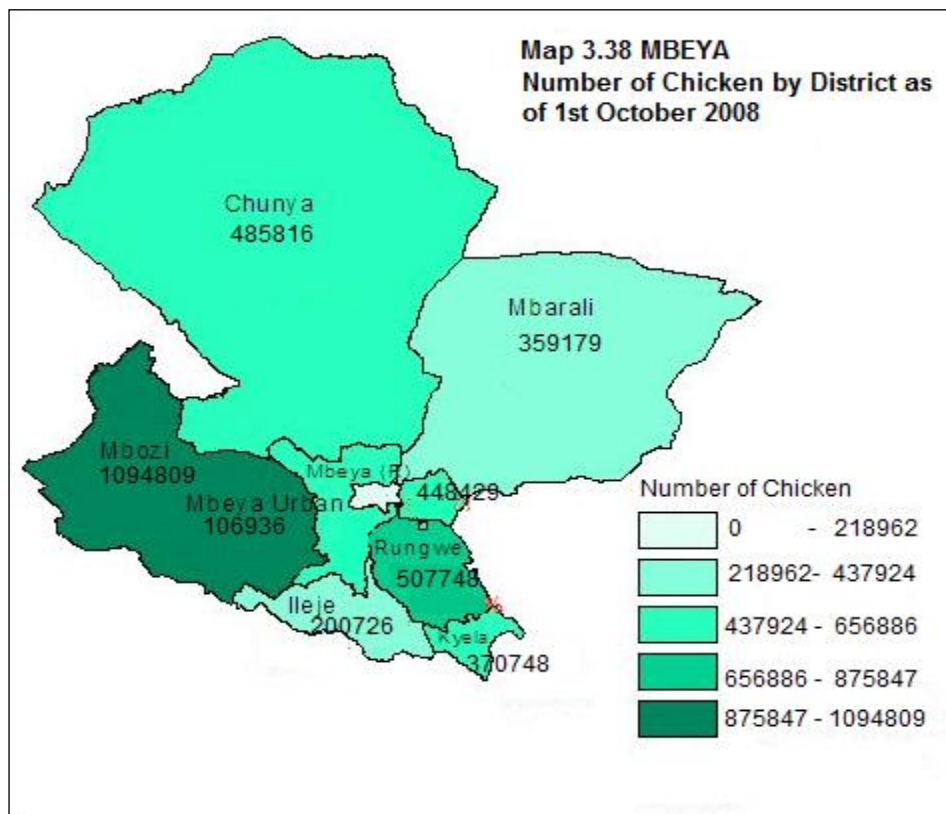
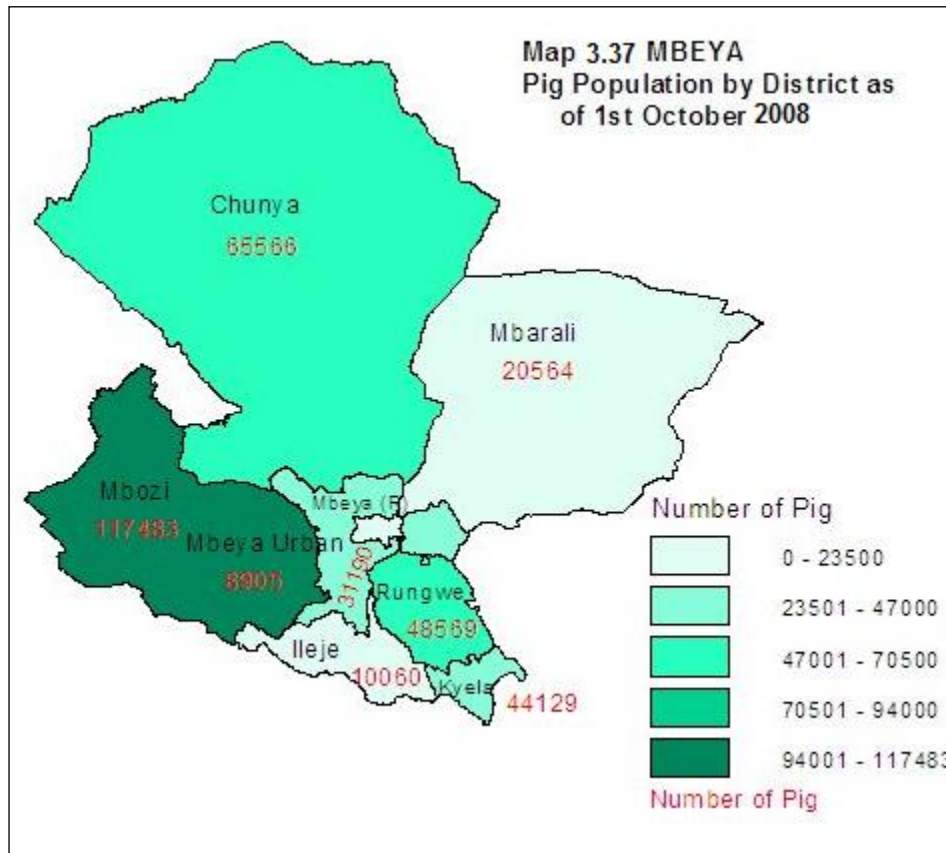
Table 3.17: Number of Chicken by Type and District as of 1st October 2008

District	Indigenous chicken			Layers			Broilers			Total	
	Number of Households	Number of Indigenous Chicken	%	Number of Households	Number of Layers	%	Number of Households	Number of Broilers	%	Number of Households	Number of Chicken
Chunya	33,220	471,953	97.1	250	1,624	0.3	1,499	12,239	2.5	34,969	485,816
Mbeya (R)	51,877	440,473	98.2	955	4,774	1.1	159	3,183	0.7	52,990	448,429
Kyela	36,567	369,958	99.8	226	226	0.1	113	564	0.2	36,905	370,748
Rungwe	66,528	507,325	99.9	204	204	0.0	0	0	0.0	66,732	507,529
Ileje	24,600	197,661	98.5	550	2,594	1.3	157	472	0.2	25,307	200,726
Mbozi	93,079	1,091,688	99.7	851	3,122	0.3	0	0	0.0	93,930	1,094,809
Mbarali	32,171	358,296	99.8	126	505	0.1	126	378	0.1	32,423	359,179
Mbeya Ur	7,698	82,221	76.9	189	24,715	23.1	0	0	0.0	7,886	106,936
Total	345,738	3,519,574	94	3,351	37,762	1.1	2,054	16,836	0.5	351,143	3,574,172

3.11.6 Improved chicken

Layers were kept in all districts in Mbeya region. The largest population of layers was recorded in Mbeya Urban (24,715) while Rungwe had the smallest number (204). On the other hand, Chunya had the largest number of broilers (12,239) while Mbozi, Rungwe, and Mbeya Urban recorded no broilers at all.

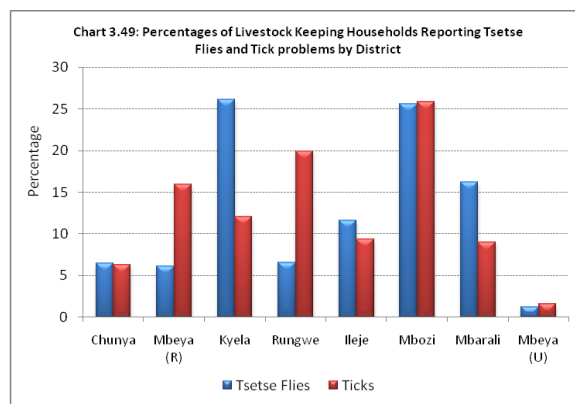




3.11.7 Pests and Parasites

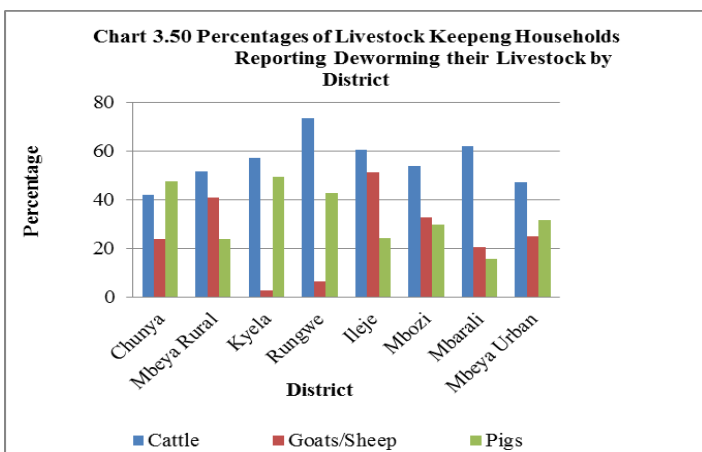
Tick and Tsetsefly

Generally, there were more households reporting tick problems than tsetsefly problem. Ileje had the highest proportion of households reporting tick problem (46%) while Mbeya Urban and Chunya recorded the lowest proportions (each 22%). On the other hand, Kyela recorded the highest proportion of households reporting tsetse problem while the lowest proportion was reported by Rungwe and Mbeya Rural (3% each), (Chart 3.49).



Deworming

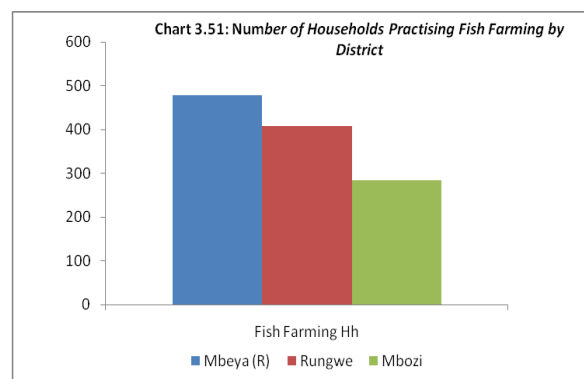
Deworming was reported for cattle, goat/sheep and pigs. Rungwe had the highest percent of households reporting to deworming cattle (74%) while the lowest percent of households that dewormed cattle was found in Chunya (42%). Regarding deworming of goat/sheep, Ileje recorded the highest percent of households (51%) while Kyela had the lowest percent (3%).

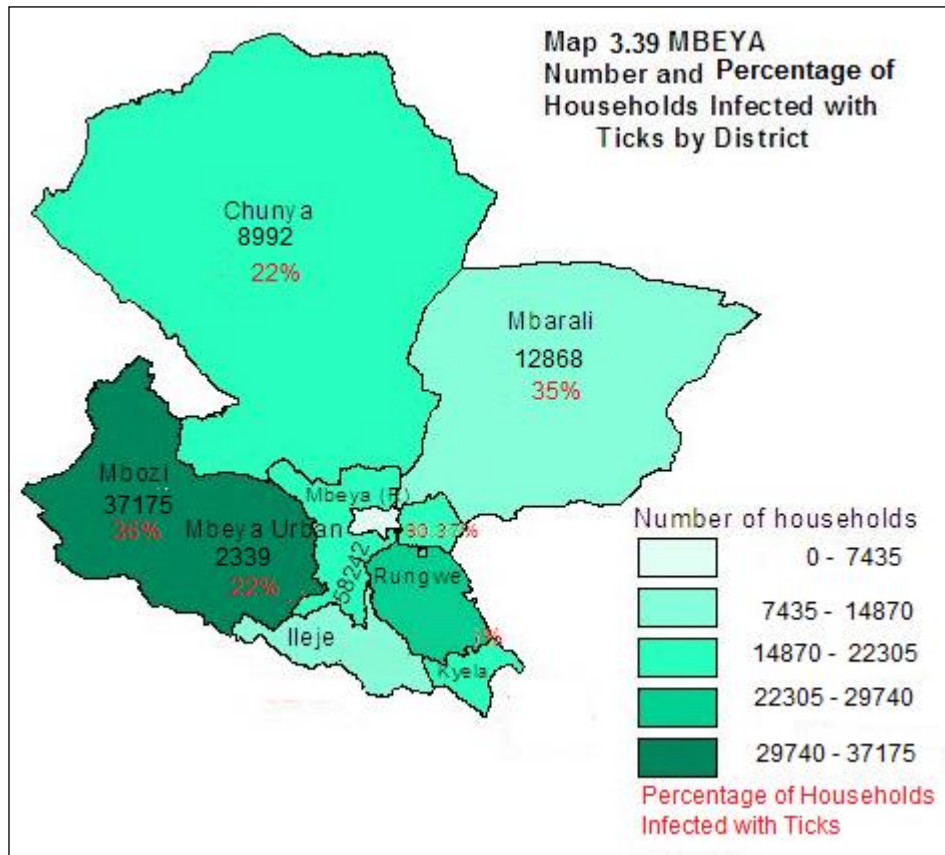


However, Kyela reported the highest percent (49%) of households that dewormed pigs while Mbarali had the lowest percent (16%), (Chart 3.50).

3.12 Fish Farming

In Mbeya region, 1,169 households were involved in fish farming. Mbeya Rural District had the largest number of households (477) reporting fish farming, followed by Rungwe (408 hh) and Mbozi (284 hh), (Chart 3.51).





3.13 Poverty Indicators

Poverty indicators were derived to assist the process of tracking poverty levels, a process that is undertaken by government. The analysis is based on the poverty indicators for agricultural households as captured through 2007/08 National Sample Census of Agriculture.

3.13.1 Household Assets

A wide range of household assets were owned by agricultural households in the region. Most of the rural agricultural households

(65.7%) owned at least

a radio/cassette of music system followed by bicycles (42.6%), pressing iron (27.7%) or mobile phones (27.5%).

Other household assets which were owned by smaller proportions of the

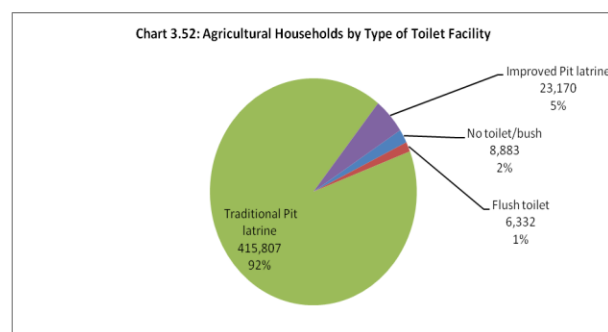
households include wheelbarrow (5.4%), vehicles (4.2%) and television/videos (2.4%) and motorcycle (1.4%). All other assets were owned by less than one percent of the households, (Table 3.18).

Table 3.18: Proportion of Households Owning Assets by District

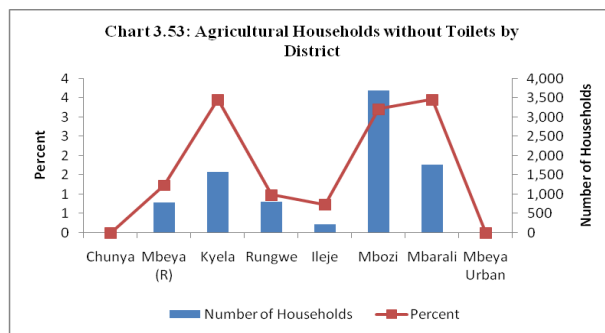
District	Radio/cassett emusic system	Telephone (landline)	Telephone (mobile)	Pressing Iron	Wheelbarrow	Bicycle	Vehicle	Television	Refrigerator	Motor Cycle
Chunya	77.53	1.48	36.54	38.02	5.43	60.99	6.17	4.69	1.23	2.72
Mbeya Rural	61.98	0.49	20.74	25.93	5.68	29.88	4.94	1.73	0.25	0.99
Kyela	59.51	0.25	27.16	29.63	3.46	60.74	1.23	1.98	1.48	0.74
Rungwe	54.07	0.74	24.44	24.44	5.43	22.72	2.22	1.73	0.74	0.99
Ileje	66.42	1.23	17.78	25.19	1.98	27.65	1.23	1.48	0.25	0.49
Mbozi	65.93	0.74	23.21	24.44	4.20	47.16	3.70	2.22	0.49	1.48
Mbarali	78.02	1.98	42.22	28.64	8.64	56.30	9.63	2.72	1.73	1.98
Mbeya Urban	79.17	1.11	47.50	40.56	15.83	39.72	5.83	4.44	3.61	2.22
Average	65.65	0.92	27.45	27.69	5.39	42.61	4.19	2.38	0.90	1.39

3.13.2 Type of toilet

The traditional pit latrine was the most common type of toilet used in the region (415,807 households, 91% of all agricultural households). It was followed by improved latrines which were used by 23,170 households or 5% of all agricultural households then flush toilets used by 6,332 household or 1 percent of the agricultural households. About 2 percent of the households had no toilet, (Chart 3.52).

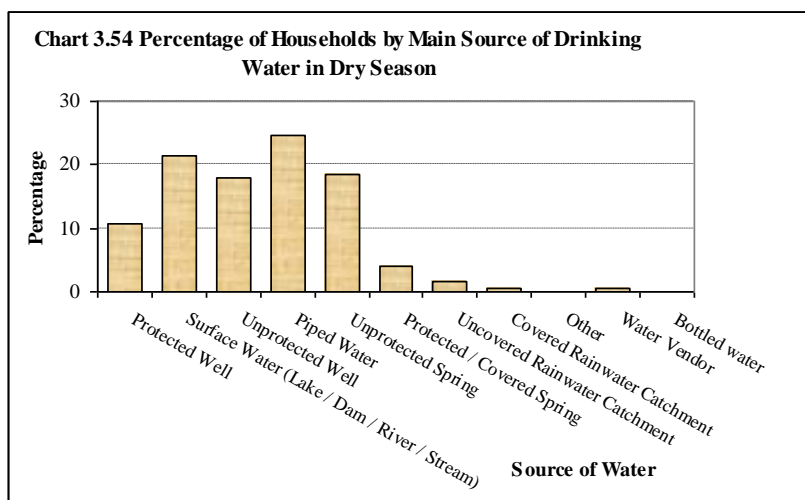


Most of the households without toilets were found in Mbozi district which had 3,689 households or 41.5 percent of the total number of households without toilets. It was followed by Mbarali (1,766 households, 19.9%), Kyela (1,580 households, 17.8%), Rugwe (816 households; 9.2%), Mbeya Rural (796 households; 9.0%) and Ileje (236 households; 2.7%). All households in Chunya and Mbeya Urban had toilets, (Chart 3.53) (Map 3.37).



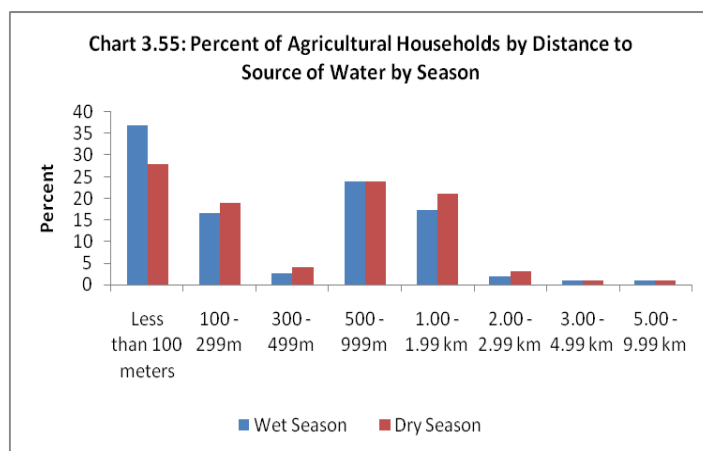
3.13.3 Access to Drinking Water

The main sources of drinking water during the dry season was piped water (25% of the total households), surface water (lakes, dams and river or stream) (22%), unprotected well and unprotected spring (each 18%), protected wells (11%), protected covered spring (4%) and uncovered rainwater catchment (2%), (Chart 3.54). This implies that about 46% used safe sources of water for drinking (water pipes and protected wells) while the remaining 54% used various unprotected water sources.



3.13.4 Distance to Source of Drinking Water

The distance to the main source of drinking water varied slightly between seasons with a few distances to the main source of drinking water increasing slightly during the dry season (Chart 3.55). However, for the largest proportion of the households (37% in the wet season and 28% in the dry season), the distance to the main source of water was less than 100 meters. Equal proportions of the households



(24%) sourced their water from a distance of between half to one kilometer. On the other hand, 17% sourced their water from a distance of between 100 and 300 m during the wet season while 19% sourced their drinking water from a similar distance during the dry season. Generally, very few households covered a distance of between 2 and 10 km to source drinking water and none covered more than 10 km for the same, (Chart 3.55).

3.13.5 Food Consumption Pattern

3.13.5.1 Number of Meals per Day

Considering the region as a whole, the majority (64%) of the households in the region took two meals per day and 35% of the households took an average of three meals per day (Chart 3.56). A relatively small proportion (1%) survived on one meal per day. On the proportion of households that took one meal per day there were some variations between districts. In all districts except Rungwe and Mbarali districts, the majority of the households took three meals per day (Table 3.19 and Map 3.59).

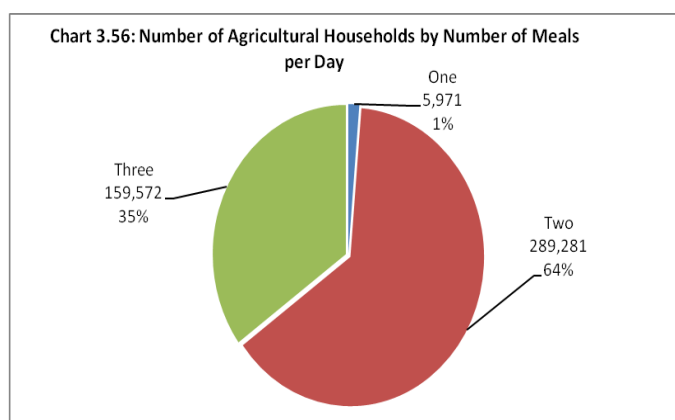
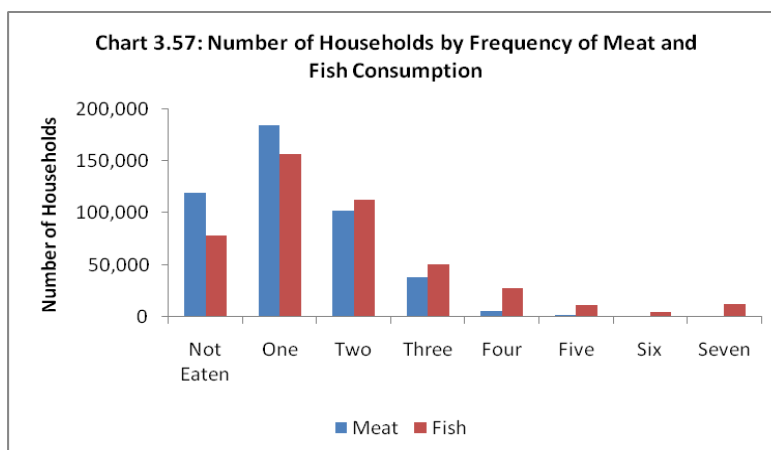


Table 3.19: Number of Agricultural Households Reporting Number of Meals the Household Normally has per Day by District, 2007/08 Agricultural Year

District	1		2		3		Total	
	Number	%	Number	%	Number	%	Number	%
Chunya	624	1	29,099	58	20,856	41	50,580	100
Mbeya (R)	477	1	48,535	75	15,436	24	64,448	100
Kyela	903	2	27,651	60	17,155	38	45,709	100
Rungwe	1,020	1	39,794	48	41,835	51	82,649	100
Ileje	550	2	20,041	63	11,239	35	31,830	100
Mbozi	1,703	1	96,200	84	17,027	15	114,929	100
Mbarali	505	1	20,943	41	29,648	58	51,095	100
Mbeya Urban	189	1	7,018	52	6,377	47	13,584	100
Total	5,971	1	289,281	64	159,572	35	454,824	100

3.13.5.2 Meat and Fish Consumption Frequency

The largest proportion of households consumed both meat and fish at least once a week, with a relatively more consuming fish. However, for consumption frequencies of two to four times a week, relatively more households consumed fish than meat (Chart 3.57). For consumptions of between 5 and 7 times a week, much



more households consumed fish rather than meat. This generally implies that more households were likely to consume fish rather than meat. However, there were also a relatively large number of households that did not consume meat (about 120,000 households) or fish (80,000) at all a week prior to census.

3.13.6 Sources of Energy for Cooking

Firewood was the most common source of energy for cooking and was used by about 95 % of the rural agricultural households in Mbeya region (Table 3.20). The second common source was charcoal (3.7%) followed by crop residues (0.7%). Other sources were minor with each used by less than 0.5 percent of the households in the region.

Table 3.20: Number and Percentage of Household by Source of Energy for Cooking

Source	Number of household	Percent
Main electricity	777	0.2
Solar	650	0.1
Biogas	113	0
Bottles gas	819	0.2
Charcoal	16,621	3.7
Firewood	432,035	95.1
Crop residue	3,337	0.7
Livestock dung	38	0
Total	454,390	100

3.13.7 Source of Energy by for Lighting

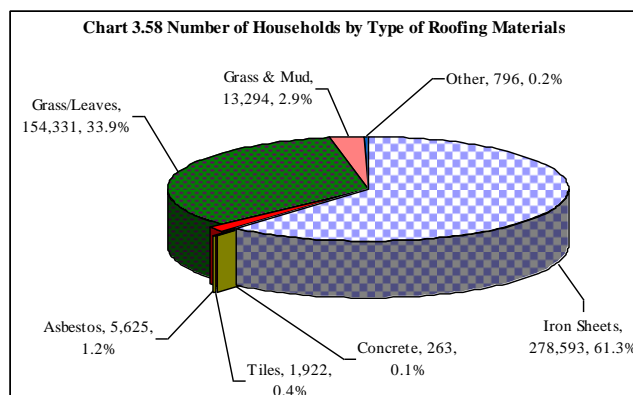
Wick lamp was the most common source of energy for lighting used by 58% of the households in the region followed by hurricane lamp (34%). Other sources, though used by much smaller proportions of the households were the pressure lamp (4%) electricity from the main gridline (2%) and solar (1%). Fewer households in Ileje (314), Kyela (564), and Mbeya Rural (955) used electricity for lighting. More households in Mbozi (1,135) had solar power as a source of energy, while gas (biogas) was only used in Mbeya Urban, (Table 3.21).

Table 3.21: Number and Percentage of Households by Source of Energy for Lighting

District	Mains electricity		Solar		Gas (biogas)		Hurricane Lamp		Pressure Lamp		Wick Lamp		Candles		Fire Wood		Other (specify)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	1,998	4	250	0	0	0	21,106	42	4,746	9	21,731	43	250	0	250	0	250	0
Mbeya Rural	955	1	0	0	0	0	12,890	20	1,432	2	48,535	75	318	0	159	0	159	0
Kyela	564	1	113	0	0	0	15,236	33	1,580	3	27,425	60	113	0	677	1	0	0
Rungwe	1,429	2	408	0	0	0	23,877	29	3,265	4	53,059	64	204	0	408	0	0	0
Ileje	314	1	314	1	0	0	8,252	26	1,257	4	21,456	67	0	0	157	0	79	0
Mbozi	1,135	1	1,135	1	0	0	35,472	31	3,689	3	67,539	59	0	0	3,689	3	2,270	2
Mbarali	1,009	2	378	1	0	0	29,395	58	883	2	18,798	37	0	0	631	1	0	0
Mbeya Urban	1,207	9	0	0	38	0	6,641	49	302	2	5,245	39	38	0	113	1	0	0
Total	8,612	2	2,599	1	38	0	152,869	34	17,155	4	263,787	58	923	0	6,084	1	2,758	1

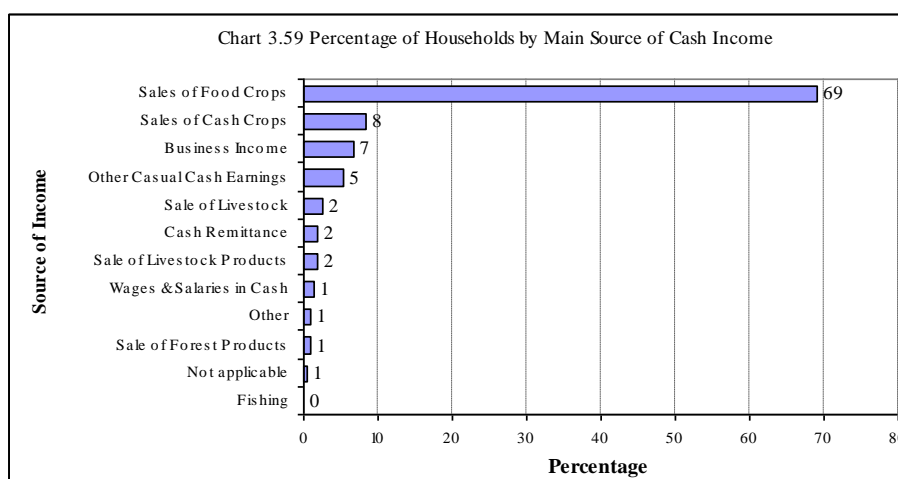
3.13.8 Roofing Material

The majority of households in Mbeya region had houses with iron sheet roofs (278,593 households, 61.3%). This was followed by roofs of grass/leaves (154,331 hh, 33.9%), grass/mud (13,294 hh, 2.9%). Others were asbestos (1.2%), tiles (0.4%) and concrete (0.1%), (Chart 3.58).



3.13.9 Sources of Cash Income

The main source of cash income for most of the rural households in the region was the sale of food crops (69%) followed, by a large margin difference, by sale of cash crops (8%) and businesses (7%). Other relatively minor sources of cash income included sale of livestock, sale of livestock products and cash remittances (each 2%) and; sale of forestry products and wages of forestry products and wages



or salaries (each 1%), (Chart 3.59).

Sales of livestock were less important in Kyela and Mbozi district, while sale of livestock products was highest in Mbozi and Ileje. Sale of cash crop coffee in particular was highest in Mbozi district, whilst sale of forest product ranked highest in Rungwe and Mbeya Rural.

3.13.10 Food Insecurity

Majority (256,754, 56%) of household in Mbeya region reported to be food secure in the week preceding the census. This was followed but yet a big percentage (26%) reporting that they seldom become insecure. Only a small proportion (3%) said that they were always food insecure, while 6% were often food insecure and 9% sometimes experienced food insecurity, (Chart 3.60).

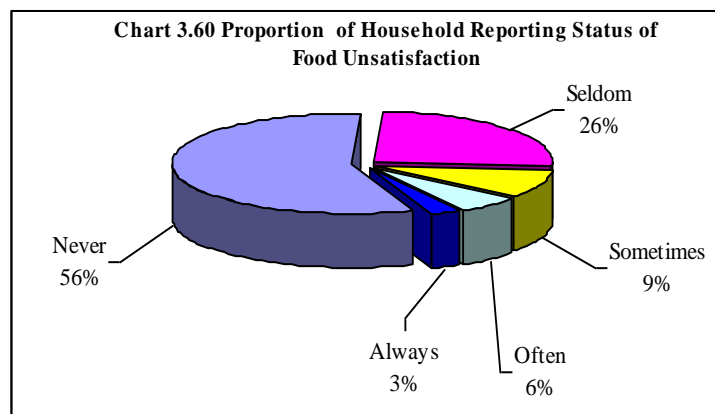
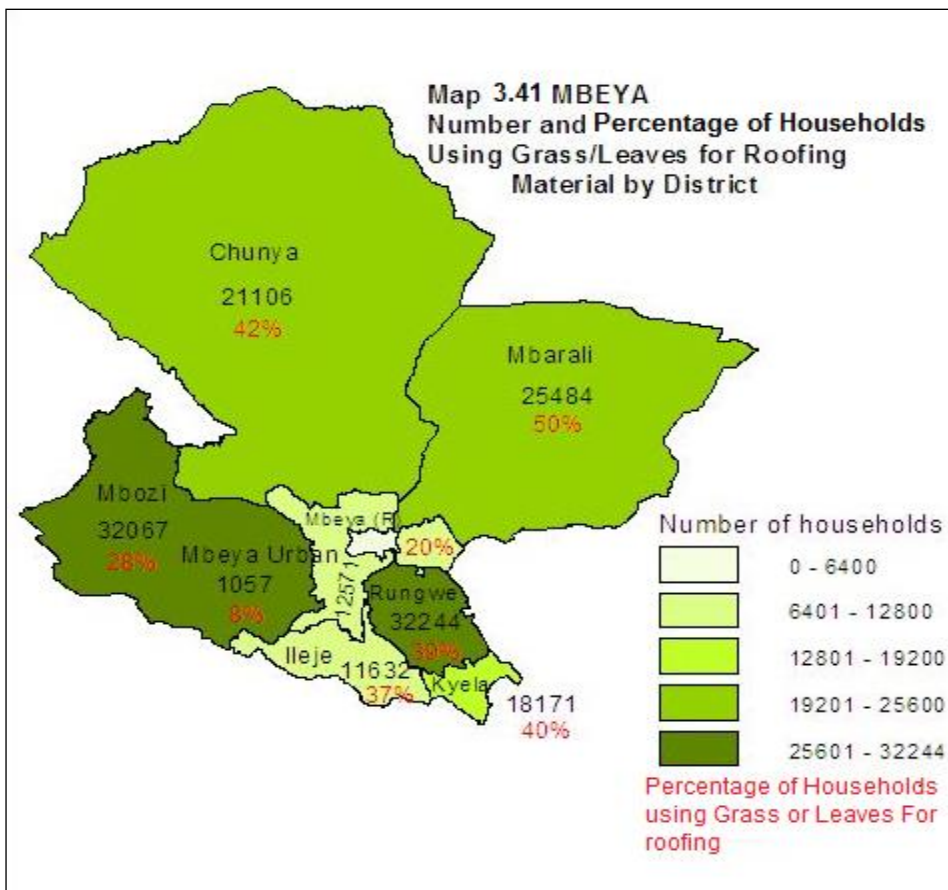
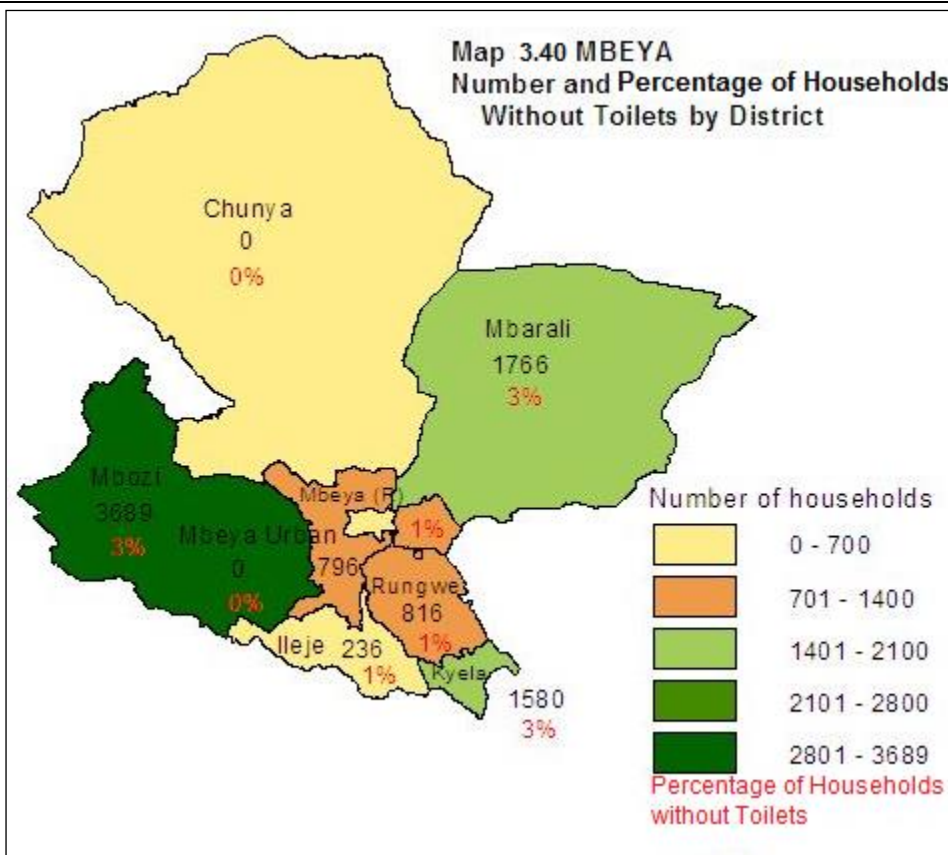


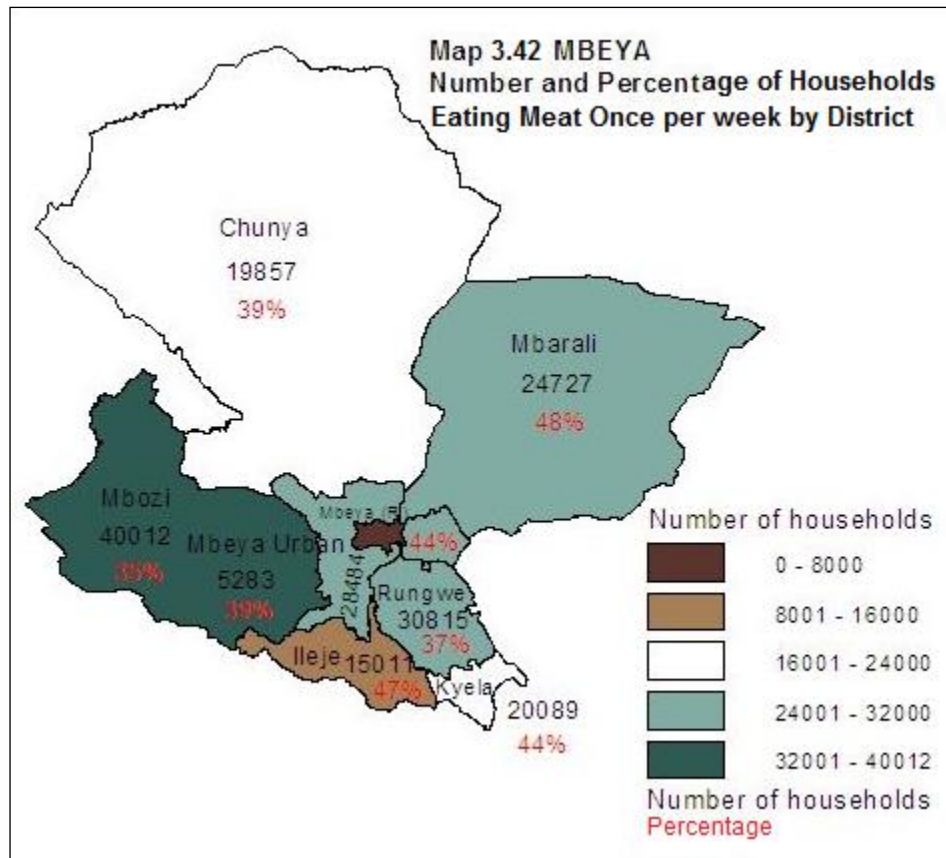
Table 3.22 Number of Households Reporting Status of Food Unsatisfaction by District

District	Never		Seldom		Sometimes		Often		Always		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	24,853	49	16,610	33	3,622	7	3,497	7	1,998	4	50,580	100
Mbeya (R)	29,757	46	19,255	30	6,047	9	4,933	8	4,456	7	64,448	100
Kyela	24,942	55	11,963	26	4,966	11	2,370	5	1,467	3	45,709	100
Rungwe	58,773	71	12,448	15	9,183	11	1,633	2	612	1	82,649	100
Ileje	24,364	77	4,244	13	1,965	6	393	1	865	3	31,830	100
Mbozi	60,728	53	33,202	29	11,635	10	7,946	7	1,419	1	114,929	100
Mbarali	26,620	52	14,382	28	4,163	8	4,794	9	1,135	2	51,095	100
Mbeya Urban	6,716	49	4,641	34	1,170	9	528	4	528	4	13,584	100
Total	256,754	56	116,746	26	42,751	9	26,094	6	12,480	3	454,824	100

There were district differences in responding to the status of food satisfaction. Rugwe and Ileje had higher proportion of households who reported to be food secure (71 and 77% respectively). Mbeya Rural, Chunya and Mbeya Urban had less than 50% of household reporting to be food secure. The proportion reporting that the household seldom or sometime experience food insecurity did not differ much between

districts. Whilst the proportion reporting that they are always food insecure was much less in Rungwe and Mbozi district (1% each), (Table 3.22).





4 MBEYA PROFILES

The following district profiles highlights the characteristics of each district and compares them in relation to population, main crops and livestock, production and productivity, access to services and resources and levels of poverty.

4.1 Mbeya Urban

Mbeya Urban district had the smallest number of agriculture households (13,584, 3% of the total in the region) but had the highest density (1,068 households per km²). The district also had the smallest percent of households that were involved in smallholder agriculture particularly crop farming (39%) with just about one percent of the households being livestock-only households.

The literacy rate among members of smallholder agricultural households in Mbeya Urban was the highest (83%), similar only to Kyela district. However, the literacy rate for female heads of households was 45 percent

With regard to the heads of agricultural households with post primary education, in Mbeya urban district, this was about 13% of the total agricultural households in the district. On the other hand, the district had the third lowest percentage of heads of agricultural households who had attained adult education (2%).

Mbeya Urban had the highest percentage of land utilization (94 %) among districts but the smallest land utilized (0.9 ha) per household. Mbeya Urban district had the smallest planted area in the region (10,862 ha) and almost all of it was planted during the long rainy season.

Maize was the dominant cereal crop in the region. However, the district was the least important for maize production as only 6,249 ha (1.6% of the total 386,887 ha planted with cereals in the region) were in Mbeya Urban district. This was the second smallest area planted with maize in the region. The production of paddy, sorghum and finger millet was not recorded in the district. Mbeya Urban was the second most important district for Irish potato production with 954 ha (19.9% of the planted area in the region) and contributed 25% of the total 18,386 tonnes harvested during the Census year. The district made a small contribution to sweet potato production with 31 ha planted and was the least important in cassava production (1 ha).

Mbeya Urban district had the second least average area planted per bean growing household in the region (0.27 ha) after Mbeya Rural. However, Mbeya Urban ranked second highest on production per hectare (1.07 tonnes). Oilseed crops were not important in the district.

Vegetable production is not important in the district. However small quantities of tomatoes were grown and yields were intermediate (12.6 t/ha) compared to 22.7t/ha recorded in Mbarali district. A small area was also planted with onions (57 ha, 6.3%) and cabbage (50 ha, 13.1% of the total 383 ha planted) which also gave the highest yields (14 t/ha). Other annual cash crops such as tobacco and cotton were not grown in the district. Mbeya Urban district was similarly unimportant for permanent crops such as coffee, banana, pyrethrum, mango, coconut and tea that were grown in other districts.

The use of inputs in the region is comparatively low. The use of fertilizer is very small and is mostly inorganic fertilizer. However district differences existed. The area planted with fertilizer was 7,047 ha (64% of the area planted with annual crops). On the other hand, the district had the highest proportion of the area planted with improved seed (4,631 ha, 43% of the total planted area in the district), in the region. Within the region, Mbeya Urban also had the highest proportion of area planted with fungicide (9.0%) and insecticides (23.9%)

The district had the smallest number of households reporting to be storing crops (12,226, 2%). The most common method of crop storage was sacks/open drums followed by locally made traditional structures. Mbeya Urban had the smallest number which reported to have sold (10,528).

The district has the smallest number of cattle in the region (9,848, 1.1% of the total cattle population in the region) of which 4,226 cattle (42.9%) were improved dairy type and another 264 (2.7%) cattle were the improved beef type. Goats, sheep and pigs were also kept in small numbers compared to other districts in the region. The chicken population reported in the district comprising of mostly local chicken was the smallest in the region (106,936, 3% of the total chicken population in the region). Comparatively high proportion of households reported tick problem, compared to tsetse problems, in the region. The district had the lowest proportion of households reported having tick problems (22%) and de-worming levels were intermediate. Fish farming was not practiced in the district.

The most common assets owned were radio (79.2%), mobile telephone (47.5%), pressing iron (40.6%) and bicycle (39.7%). Other asses owned by relatively fewer households were the television, refrigerator, vehicle and motor cycle.

Firewood was the major source of energy for cooking reported by about 11,886 households (88% of the agricultural households). The district had the largest percentage of households using mains electricity for lighting in the region, but the hurricane lamp was the most popular means of lighting (48.9%) in the region, followed by the wick lamp (38.6%).

Grass roofing was used the least in this district (8% of the households) and the district had the smallest percentage of households with no toilet facilities. The most common sources of drinking water are from piped water and unprotected spring. The majority of the households took two meals a day and the majority consumed each meat and fish once a week.

4.2 Mbeya Rural

Mbeya Rural district had the third largest number of agricultural households in the region (64,448, 14% of the total in the region), after Mbozi and Rungwe districts. About 58 percent of the agricultural households in district were involved in crop farming only. While 42 percent were involved in both crop farming and livestock keeping. Livestock only and pastoralists were not practiced in the district.

Overall, the percentage of population aged 5 years and above who had completed different levels of education was estimated at 40%. However, the literacy rate (ability to read and write in Kiswahili or English) among members of smallholder agricultural households in Mbeya Rural was an average of 76% (the 4th lowest among districts). The literacy rate was about 79% for male heads of households and 37% for female heads of households. Mbeya Rural had the lowest percentage (60%) of heads of household with primary level education and highest percentage of heads with no education (34%).

Mbeya Rural had the fourth highest land utilization in the region (88.4%) and the average utilized area per household was 1.4 ha.

Mbeya Rural district had the fourth largest planted area (78,093 ha, 13.7% of total 568,383 ha planted in the region), after Mbozi, Chunya and Mbarali districts and almost all of it was planted during the long rain season with only about 10.2% planted during the dry season.

Out of the total area planted with cereals in the region (386,887 ha), Mbeya Rural had the fourth largest area planted with cereals (51,538 ha, 13.3% of the total planted with cereals), after Mbozi, Mbarali and Chunya. Of the area planted with cereals, 44,824 ha (87% of the area planted with cereals) was planted with maize. The average area planted with maize per maize growing household was 0.7 ha.

Mbeya Rural district had the largest area planted with Irish potatoes (2,706 ha, 56.6% of the planted area in the region) and contributed 10,029 tonnes (55% of total Irish potatoes harvested in the region). Mbeya Rural district had the third largest bean planted area of 13,216 ha (15.3% of total 86,326 ha planted in the region) and an average of 0.34 ha per bean growing household. Oilseed crops were not important in the district.

Vegetable production was minor in the district. However Mbeya Rural district had the largest planted area of onions (470 ha, 51.8% of the total area planted with onions in the region). Tomatoes were planted on small plots (0.21 ha/household) and the total area planted in the district was the second largest, after Mbozi district, accounting for 22.5% of the total 1,786 ha planted in the region. However, onion yields in the district were amongst the lowest (1.2 t/ha compared to 6.8 t/ha recorded in the most productive district, Mbarali. Cabbage was much less common (145 ha planted).

Mbeya Rural district was the only district where pyrethrum was planted (1,575 ha) with an average yield of 0.44 t/ha. The area planted with perennial crops in Mbeya Rural was about 9,044 ha (6.7% of total planted area in the district) comprising mostly coffee, mango and banana.

On inputs use, the level of use of fertilizer was generally very small with about 69.56% of the area (54,318 ha) planted with annuals being planted without fertilizers. Improved seeds were used on about 11% (8,665 ha) of the total area planted with annual crops in the district compared to 69,428 ha planted using unimproved seeds. Considering the region as a whole, Mbeya Rural had the largest area planted with fungicides (2,641 ha, 3.4% of the area planted with annuals), the second largest area planted with insecticides (12,507 ha) and the smallest area planted with herbicides (209 ha).

The most common method of crop storage was sacks/open drums followed by locally made traditional structures. Mbeya Rural recorded the highest percentage of households which sold crops (89.3%). However, the major marketing challenge was low prices in the open market.

About 22,597 households kept a total of 104,708 heads of cattle (out of the total 870,218 in the region). It has the fourth largest cattle population in the region most of which were indigenous accounting for 90.9 percent of the total population. Improved dairy were 5.8% and improved beef were 3.3% of the cattle population in the district. The district also had about 20.4% (111,232 goats) of the goat population in the region. Other livestock included sheep (15,436 sheep, 15.7% of the total 98,222 sheep in the region) and pigs (31,190, 9% of total in the region). The district had the fourth largest population of chicken (448,429 chickens) in the region and the second highest density of local chicken (1,963 chickens per square km). A higher proportion of households reported tick compared to tsetse problem in the region and deworming of goats and sheep was the second highest proportion of households (41%) in the region. Fish farming was also practiced by about 477 households in the district which was the largest number of households compared to other district.

The most common assets owned were radio (62.0%), bicycle (29.9%), pressing iron (25.9%) and mobile telephone (20.7%). Other assets owned by relatively fewer households were the refrigerator, landline telephone, motor cycle and television. The major source of credit in the district was savings and credit society. Firewood was the major source of energy for cooking (96% of the households) followed by crop residues and none of the households used mains electricity, gas, solar or paraffin for cooking. The wick lamp was the most popular means of lighting (75.3%), the highest in the region, followed by the hurricane lamp (20%). The most common roofing material was iron sheets (76%) followed by grass roofing (20% of the households). The most common sources of drinking water are from surface water and unprotected spring. The majority of the households took two meals a day and the majority consumed both meat and fish once a week.

4.3 Chunya

Chunya district had the fifth largest number of agricultural households in the region (50,580, 11% of the total in the region), after Mbozi, Rungwe, Mbeya Rural and Mbarali districts. The density of agricultural households was estimated at 272 per sq. km. The districts' main occupation was crop farming reported by 91% of the households and about 1% of the households derived their livelihood from livestock keeping/herding and 7 percent depends on employment.

Overall, the percentage of population aged 5 years and above who had completed different levels of education was estimated at 40% which was the second lowest in the district as well as the literacy rate (ability to read and write in Kiswahili or English) among members of smallholder agricultural households in Chunya was 71%. The literacy rate for male heads of households was 82% and that of female heads of households was 62%. The proportion of heads of agricultural households with primary education was second highest (69%) and was third highest for those with post primary education (6%) in the district.

Chunya district had the lowest land utilization in the region (61.8%). The utilized area per households was estimated at 2.2 ha out of 3.6 ha usable area per household, which was the highest in the region. Chunya district had the second largest area planted with annual crops (105,520 ha, 18.6% of total 568,383 ha planted in the region), after Mbozi district and almost all of it was planted during the long rainy season.

Out of the total area planted with cereals in the region (386,887 ha), Chunya had the third largest area planted with cereals (67,020 ha, 17.3% of the total area planted with cereals), after Mbozi and Mbarali districts. The district had the second largest area planted with maize (56,571 ha, 20.8% of the total 271,402 ha planted with maize in the region). The average area planted with maize was 1.2 ha/household.

Other cereals including sorghum; bulrush millet, finger millet and wheat were planted in small areas compared to maize and paddy was a minor crop in the district.

Amongst root crops, Chunya district had the largest area planted with sweet potatoes (1,656 ha; 31% of total planted area) and made largest contribution (2,834 tonnes, 28.6% of the total 9,909 tonnes harvested)

The major pulse crops in Chunya district were beans, cowpeas and bambaranuts. Cowpeas were planted on 379 ha (79.3% of the total 478 ha planted in the region).

Chunya district was the second most important district for groundnut production with an average yield of 0.74 t/ha. The area planted was 7,971 ha (24% of total planted area) and planted area per groundnut growing household was 0.4 ha. Chunya district accounted for the largest area planted with sunflower (5,486 ha, 36.7% of the 14,963 ha planted in the region) with an average area of 0.54 ha/ household.

Vegetable production was minor in the district with only small area planted with tomatoes (2.9% of 1,786 ha) while both cabbage and onions were minor crops. Amongst other annual crops, Chunya district was important for tobacco production having 97 % of total 6,328 ha planted in the region. However, permanent crops were not important in the district with very small area planted with banana and mango.

Use of fertilizer was generally very small with about 81.0%, of the area planted with annual crops being planted without fertilizers. Organic fertilizers were applied on a planted area of 3,653 ha while inorganic fertilizer were applied on an area of 16,406 ha

Improved seeds were used on a very small area compared to 76,527 ha (73% of the area planted with annual crops) which were planted with unimproved seeds. Pesticide use in the district was generally low but was dominated by insecticides which were applied on 6,181 ha followed by fungicides (835 ha) and herbicides (480 ha) out of the total planted area in the district (105,520 ha).

Crop storage was practiced by almost all households in the district and the most common method of crop storage was sacks/open drums followed by locally made traditional structures. In Chunya district, 77.4% of the households recorded selling crops but the major problem reported was low prices in the open market.

About 10,366 households kept a total of 141,124 heads of cattle of the total 870,218 in the region. It had the third largest cattle population in the region most of which were indigenous and it accounting for 99.8 percent of the cattle population in the district. Chunya district, with 105,531 goats, was among the three districts with the largest population of goats in the region. The district also had the second largest sheep

population (23,229 out of the total 98,222) as well as pigs (65,566 out of the total total of 346,466 pigs). Chunya, with 485,816 chicken, was among the three districts together with Mbozi and Rungwe, having the largest population of chicken in the region. Fish farming was not practiced in the district.

High proportion of households reported tick problem, compared to tsetse problems and in the case of Chunya, an estimated 22% of the livestock-keeping households reported the problem. However, deworming of cattle, goats and sheep in the district was the lowest (42%) in the region.

The most common assets owned were radio (77.5%), bicycle (61.0%), pressing iron (38.0%) and mobile telephone (36.5%). Other assets owned by fewer households were refrigerator, telephone (landline), motor cycle and television. The major source of credit in the district was cooperatives.

Firewood was the major source of energy for cooking reported by over 93% of the households, followed by charcoal and none of the households used mains electricity, gas, or paraffin for cooking. The hurricane (41.7% of the households) and wick lamps (43% of the households) were the most popular means of lighting. Grass roofing was used considerably in the district (42% of the households). All households had toilets mostly the traditional pit latrine.

The most common sources of drinking water were from surface water, piped water and unprotected wells. The majority of the households took two meals a day and the majority consumed both meat and fish once a week.

4.4 Kyela

Kyela district had the third lowest number of agricultural households in the region 45,709. The density of agricultural households was estimated at 716 per sq.km. The districts' main occupation was crop farming reported by 91% of the households. Other activities such as livestock keeping, fishing, and employment accounts for smaller percentages of the agricultural households in the district.

Overall, the percentage of population aged 5 years and above who had completed different levels of education was the highest (44%) in the region and so was the literacy rate (ability to read and write in Kiswahili or English languages) at 83 percent.

The literacy rate for heads of households in Kyela district was estimated at an average of 71%. The literacy rate for female heads of households was 44% and that of male heads was 82%. The district had the second highest percentage of the heads of agricultural households with post primary education.

The district had the second highest land utilization (92.4%) and the utilized area per household in Kyela district was 1.3 ha which was the third lowest among districts. Kyela district had the sixth largest planted area (39,990 ha, 7% of total 568,383 ha planted with annuals in the region) and almost all of it was planted during the long rainy season.

The area planted with cereals was 36,700 ha (9.5% of the total 386,887 ha under cereals in the region) which constituted 92% of the area planted with annuals in the district. Kyela district had the smallest area planted with maize (6,022 ha, 2.2% of the total 271,402 ha planted with maize in the region) and the second largest area (after Mbarali) planted with paddy (30,632 ha; 38% of the total area planted with paddy). The average maize planted area was 0.28 ha/household and the yield was about 1.5 t/ha as compared to 0.73 ha/household for paddy with average yields of 1.55 t/ha. Other cereals planted in the district were bulrush millet, finger millet and wheat which were planted on much smaller areas while sorghum was not planted in the district. Sweet potatoes, Irish potatoes, cassava, beans and cowpeas were minor crops in Kyela district.

Amongst oilseed crops, Kyela had the smallest area planted with groundnuts (1,492 ha, 4% of the total area planted with groundnuts in the region) and also had the smallest planted area per household (0.17 ha) but the yield was the highest (1.38 t/ha). Area under sunflower was insignificant. In the case of vegetables, the district did not make major contributions as very small areas were planted with tomato, onion and cabbage.

Permanent crops were planted on average area of 0.64 ha/household. Kyela had the largest area planted with oil palm (2,277 ha, 92.5% of total area under the crop) at an average of 0.12 ha/oil palm growing household; the largest planted area for mango, (3,792 ha, 63%) at an average of 0.63 ha/mango growing household; the largest area planted with oranges (307 ha, 65.3%) at an average of 0.1 ha/household and the second largest area (after Rungwe) planted with banana (3,047 ha, 9.4%),) at an average 0.14 ha/household. Tea and coconut were minor crops and coffee was not planted in the district

Various inputs were used. The level of use of fertilizers was generally very small with about 35,640 ha (89.12% of annual crops planted area) being planted without fertilizers. Organic fertilizers were applied on a total of 1,571 ha and inorganic fertilizers were applied on 2,779 ha.

Kyela had the smallest area planted with improved seed (422 ha, 0.4% of the total 111,081 ha planted with improved seed in the region). Kyela had the largest area planted with herbicides (14,455 ha, 36% of the total planted area (39,990 ha) in the district) followed by insecticides (391 ha, 0.98%) and lastly

fungicides (69 ha, 0.17%). Crop storage was practiced by 97% (43226 households) of the households in the district, the most common method of crop storage were sacks/open drums followed by locally made traditional structures. About 86.3% of the households reported selling crops though the major problem reported was low prices in the open market.

About 20,428 households kept a total of 86,903 heads of cattle (out of the total 870,218 in the region), the third lowest population in the region, most of which (98.8%) were the indigenous type. Kyela had the smallest population of goats (1,693, 0.3% of the total 544,473 goats in the region), all of which were of indigenous type. It was the only district where sheep were not kept. The pig population in the district (44,129 pigs) accounted for 12.7% of the total in the region. The 370,748 chicken recorded in Kyela district was almost all indigenous type (99.8%). Fish farming was not practiced in the district.

Kyela recorded the highest percentage (19%) of households reporting tsetse problem in the region. A comparatively high proportion of households reported ticks (40%). However, deworming was highest for cattle (about 57% of households) followed by pigs (about 49%) and was lowest for goats and sheep (3%)

The most common assets owned were bicycle (60.7% of the households), radio (59.5%) and pressing iron (29.6%). Other assets owned by fewer households were telephone landline (0.3%), motor cycle (0.7%), vehicle (1.2%) and refrigerator (1.5% of the households). Most of the households accessed credit from private individuals or from savings and credit societies.

Firewood was the major source of energy for cooking reported by the majority of the households (42,210 households, 92%) compared to 3,273 households (7%) that used charcoal, and 113 households (0.2) that used paraffin/kerosene. Wick lamps were used by the majority of households (60%) for lighting in Kyela district while another 33.3% used the hurricane lamp. Pressure lamps were reportedly used by 3.5% of the households while the proportion of households that used mains electricity for lighting was only 1.2%.

Iron sheets were used by majority of the household (52.6%) for roofing followed by grasses (18,171 households, 39.8%). About 1,580 households (3% of the households in the district) did not have toilet facilities and the majority (88%) had the traditional pit latrine. The most common sources of drinking water were from piped water, protected wells and from unprotected wells. The majority of the households took two meals a day and the majority consumed meat once a week and twice a week.

4.5 Rungwe

Rungwe district had the second highest number of agricultural households in the region. As is the case with other districts in the region, most smallholders were involved in crop farming only, followed by crop and livestock keeping and livestock only. Livestock pastoralists, fishing and fish farming were negligible in Rungwe accounting for less than 1 percent of the total agricultural households' involved in the activity in the region.

Rungwe is one of the districts where annual crop farming was the most important livelihood activity for smallholder households. Other activities were either negligible (e.g. livestock pastoralist government/parastatal employment) or were nonexistent (e.g. fishing, fish farming) in the district. Compared with other districts in the region, Rungwe had third highest percentage of literacy rate among the household members at 78%. The literacy rate for the heads of household was the lowest among females at 45 percent, compared to that of male households (82%)

Rungwe had the fourth smallest usable area available to smallholder agricultural households. The land utilization per household in Rungwe was the lowest in the region at 0.46 hectares. The district also had the lowest planted area per household at 0.42, but had a third highest percentage utilization of usable land at 92.3 percent.

Area planted with annual crops was the third smallest (60,475 ha) in the region, and much of this area was planted with cereal crops. Maize dominated the production of cereal crops in the district with a planted area of over 31,269 ha making the district ranking fourth highest in planted area. However, the district had the planted area per household of 0.33 ha/hh which was the smallest in the region. Paddy was grown in very small quantities in the district with a planted area of only 2,607 ha. Other cereals namely sorghum; bulrush millet, finger millet and wheat were grown in very small quantities in the district.

The district had the second largest planted area with beans accounting for 22.5 percent, but had the third smallest percentage of planted area with beans per beans growing households of 0.16 hectares. Groundnuts were among the major oilseeds in the district, but the crop was however produced in small quantities and had the fourth largest planted area accounting for 9.75 percent. The district had the second smallest planted area per groundnuts growing households at only 0.24 ha/hh.

Tomatoes were the only reported fruits and vegetables produced in the district though in small quantities with their planted area accounting for 12 percent, making the district as have the third largest planted area

for the crop. Unlike in other districts onions and cabbage were not reported in the Rungwe district. In regard to perennial crops, Rungwe was leading in the production of banana accounting for 82.89 percent of the planted area of the crop in the region

The use of inputs in the region was moderate; however there were small variations across districts with Rungwe having the fourth smallest area planted with improved seeds in Mbeya region (14 percent of the area under annual crops in the district).

Organic fertilizer was applied on 4,431 ha and inorganic fertilizer on 10,395 ha out of a total of 60,475 ha planted with annual crops. In Rungwe district pesticides were applied as follows, herbicides (1,492 ha), insecticides (970 ha) and fungicides (764 ha) out of the 60,475 ha planted with annual crops.

The district had a small irrigated area (1,097 ha) accounting for 1.81 percent of the total area planted with annual crops in the district. Rivers and tap water were the most common source of water for irrigation, with gravity and hand bucket as the common methods of drawing irrigation water from the source.

Rungwe had the largest number of households that stored crops accounting for 99 percent of agricultural households who reported to have stored crops. Locally made traditional structures, sacks, open drum, and improved locally made structures in that order were the commonly used storage methods. The district had the smallest percentage (55.22%) of the households selling crops; and those who sell reported low market prices, high transport costs, and long distance from the market as the main problems.

Rungwe had the moderate number of agricultural households accessing credits, and 75 percent of those accessed agricultural credit were males as opposed to females who accounted for only 25 percent of those accessing credit in the district. In Rungwe, NGO/development projects were the only credit providers to agricultural smallholders. Most of those who did not use credits their reasons were inadequate knowledge of accessing credit, unavailability of the credits and fear of getting into debt.

Comparatively Rungwe had the highest number of agricultural households receiving crop extension with 83.5 percent of the services coming from the government, followed by neighbours (8.7%), and Radio/Television/Newspaper (4.5%). Other sources were less important accounting for less than 2 percent.

Rungwe had the fifth largest number (102,445 cattle) of cattle in the region. It had the third smallest number of goats (17,346 goats), third largest number of sheep (21,224 sheep) and pigs (48,569 pigs), and the second largest number of chicken (507,529) all of these livestock were of indigenous type. Other livestock in the district included dogs, ducks and rabbits, in that order.

The district reported fourth highest tick problem, and the lowest tsetse flies problem. Newcastle disease was fourth lowest and Fowl Typhoid disease and foot and mouth disease were second lowest but lympskin disease was second highest. Spraying and dipping were common control methods for tick problem, while spraying trapping and dipping were common control methods for tsetse problem. Local herbs and vaccination were commonly used control methods for other reported problems.

As was the case for crop extension, Rungwe had the highest percentage of agricultural households receiving livestock extension accounting for 88.7 percent of the agricultural households in the region; much of which coming from the government, followed by neighbours (8.7%), Radio/Television/Newspaper, and NGOs/Development projects, in that order. Other sources were insignificant.

Most of the agricultural households in Rungwe district owned radio/music systems (54.1, followed by those owning telephones, mobile and pressing iron (24.4%) then bicycles (22.7%). Wick lamp (69.2%), hurricane lamp (28.9) and pressure lamp (4.0) were the main sources of lighting energy for agricultural households. The use of mains electricity was insignificant accounting for only 2 percent.

As for cooking energy, firewood was the main source with 98 percent of agricultural households using this source in the district. The use of mains electricity and other sources were insignificant. Iron sheets and grass/ leaves were the main roofing materials used in the district by being used by 59 and 39 percent of the households respectively. Rungwe had the second smallest percentage of households with no toilet facilities. It had the second largest percentage (95%) of households using traditional pit latrines, followed by those using improved pit latrines. Many households had access to drinking water within the distance of between 1 to 2 kilometres, with unprotected spring, piped water, unprotected wells, and dams/rivers and streams as the main sources of drinking water.

Most households reported having three meals per day, followed by those who reported having two meals per day. Most households reported having eaten meat once, followed by those who had not eaten meat, and then those who had eaten meat twice during the week prior to enumeration. Most households reported to have eaten fish once, followed by who reported to have eaten fish twice, and then those who reported not to have eaten fish during the week prior to enumeration; however it had high percentages of households who never experience food insufficiency problems.

4.6 Ileje

Ileje district ranked 7th in terms of number of agricultural households (31,830; 7% of the regional total). Out of these 13,597 household grow crops (42.72%). The main occupation include livestock keeping (1,179 hh), crop production (13,597 hh; 7%), fishing (157 hh) and 1,100 were government or parastatal employees. The district had the second highest literacy level (81%). The literacy rates of household heads were 82% for males and 48% for females.

The district had a total planted area of 36,755 ha (6.5% of regional total). However, it had the fifth largest annual crops planted area per household. Cereals were grown by a few households and the district had the second smallest area planted with cereals (23,860 ha). Cereals include maize (21,287 ha), finger millet (1,589 ha), paddy (578 ha), and wheat (286 ha). Roots and tubers were also grown, the most important of which was sweet potatoes for which the district ranked second with planted area of 1,048 ha. However, yield at 1.3t/ha was the second smallest. Cassava was grown on 945 ha (10.2% of regional total). The major pulses grown was beans for which Ileje had the planted area of 7,515 ha (8.7% of the area under beans) and a yield of 0.45 t/ha.

Fruits and vegetables were less common and the most important vegetable was onions (195 ha; 21.5% of the regional total). Permanent crops were also grown in small areas mainly coffee. Input uses were moderately low and the district ranked lowest in fertilizer application, moderate in use of improved seeds and little use of insecticides and fungicides. Irrigation practices were also low with only 1,452 ha being under irrigation, mainly from rivers.

Furthermore, a large proportion of household stored crops (35,367 hh; 98%) whilst 72.4% (26 014 hh) of the households sold crops. Households accessed credits from different sources, the most important being family/friend, banks and savings and credit societies. Nonetheless, 98.5% of the household received crop extension advices. Ileje had relatively few livestock compared to other districts. It had the second smallest number of cattle (59,888 heads of cattle), fifth largest number of goats (64,839) and sheep (6,602) and seventh in the number of pigs (10,060). It was also second lowest in number of chicken (200,726). However, it recorded highest proportion (46%) of households reporting tick problems, with moderate number of those reporting tse tse problems. Fifty percent of the livestock keeping households dewormed their livestock. Few households (1%) had no toilets facilities and majority of households (63%) had at least two meals per day.

4.7 Mbozi

The district ranked highest in terms of number of agricultural household (114,929) with a household density of 471 per sq. km. The main livelihood activities were farming (217,089 hh), practiced by 95 percent of the agricultural households in the district. Other livelihood activities accounted for less than 5 percent. The literacy rate was 75% the third lowest in the district. It also had the fourth highest proportion of person aged 5 years and above who have completed various forms of education (39%).

In terms of land utilization (83%) the district ranked third with average of 1.74 ha per household. It had the largest planted area of 155,404 ha where cereal production occupied the largest portion with 92,117 ha. Maize was the dominant cereal crop with a planted area of 73,970 ha. The district ranked third in paddy production (4,596 ha), third in Irish potatoes (574ha), first in cassava (4,426 ha) and fourth in sweet potatoes production (632 ha). Beans were also planted on 37,483 ha with an average of 0.44 ha per household. Other pulses included field peas, bambaranuts and cowpeas.

Mbozi had the largest groundnut planted area (12,942ha, 39%), and the second largest planted area of sunflower (4,412 ha). Vegetables were also grown, whereby a tomato was the most important crop and the district ranked highest. Other vegetables include onions (172 ha), and cabbage (172ha).

It has the largest area planted with permanent crops in the region with 53,831 ha (39.6% of regional total). The dominant permanent crop was coffee and it accounted for 83% of the area under permanent crops in the district. Others include fruits such as mangoes with planted area of 1,328 ha 2.5% of the 155,904 ha planted with annual crops. Organic fertilizer was used on 2,614 ha and inorganic fertilizer was used on 54,056 ha. The district ranked second highest in the use of improved seeds with 28.88% of the area planted with annual crops using improved seeds.

Irrigation was modestly used and the district ranked second after Mbarali with 9,022 ha irrigated (27%). Most of the grown crops were marketed and 113,227 households (99%) stored crops. Access to credits was low and the district ranked fourth with 1,703 households accessing credits mainly from saving and credit societies (50%), family or friends (16.7%), banks (16.7%) and cooperatives (16.7%). However, majority of households (94.8%) did not receive crops extension advices.

The district had largest number of cattle (194,103), goats (155,509), pigs (117,483), chicken (1,094,809). Sheep were also kept but they were few (5,959). The most common livestock pest was ticks and was reported by about 36% of livestock keeping households. Deworming was not common. Mbozi had proportionally higher number of household without toilets accounting for 42% of the regional total.

Moreover, 53% of the agricultural households reported to never have experienced food problem. The district had 84% of household reporting to have at least two meals per day while, 15% had three meals. The main source of lighting was wick lamp (59%), hurricane lamp (31%) and only 1% had electricity. About 28% of the agricultural households in the district had grass roofs.

4.8 Mbarali

Mbarali District in Mbeya region had the fourth largest number of agricultural households (51,095). In Mbeya majority of the agricultural households ranked annual crop farming as an activity that provides most of their cash income and Mbarali district accounted for the highest percentage of households earning income from crop farming (96%). The average literacy rate in Mbarali was 71% slightly lower than the regional literacy rate at 76%. The literacy rate for heads of households was 70%.

Land utilized per household at 1.77 ha, was the second highest among districts in the region. Besides, Mbarali had the third largest planted area (80,785 ha), which was less than that recorded in Mbozi (155,904 ha) and Chunya (105,520 ha). Paddy was the dominant cereal crop at 96,994 tonnes which was 62.7 percent of total cereal crop production, followed by maize (35.2%) sorghum (1.9%) and wheat (0.2%). Mbarali had the second largest area planted with cereals (73,327 ha) after Mbozi district (92,146 ha). Furthermore, the district had the largest area planted with paddy (38,668 ha; 48% of total regional area planted with paddy). Groundnuts were also grown in Mbarali and the district had the third largest area planted with groundnuts (3,407 ha) which however was almost a quarter of the area planted in Mbozi district (12,942 ha).

Mbarali district was second after Kyela district in terms of percentage of area planted with no fertilizer application (83.68%, 65,599 ha). The total area planted with organic fertilizer was 22,849 ha in the region of which Mbarali had the sixth largest planted area (1,674 ha), which was more than that reported for Kyela (1,571ha) and Mbeya Urban (1,105ha).

The district recorded the second lowest percentage of households storing crops (96%). Besides, the District recorded the second highest percentage of households reporting selling crops (89.11%) after Mbeya Rural (89.34%). Livestock production was important economic activity in the district and Mbarali came second in the number of cattle kept (171,200) after Mbozi District (194,103). Specifically, it recorded the second largest number of indigenous cattle (169,938) after Mbozi (187,292). Distribution of the pig population by district shows Mbarali District having the sixth largest number of pigs (20,564) and

the seventh highest density of pigs (197), which was a little higher than Ileje (196). The district had the fourth highest population density of chicken (684).

Deworming was reported for cattle, goat/sheep and pigs. Mbarali had the highest percent of households reporting deworming of cattle (62%). However, the District reported the lowest percentage of households reporting to deworm pigs (16%). In Mbarali, most agricultural households depended on friends, family and relatives also private for credits. Also, the district recorded the highest percentage of households using grass for roofing (50%). However, a small proportion of the households had no toilets and Mbarali was leading in this category with 3% of the households not having toilet facilities. In Mbarali district majority of the households took three meals.

APPENDICES

APPENDIX I: TABULATION LIST	96
APPENDIX II: TABLES	110
APPENDIX III: QUESTIONNAIRE.....	286

APPENDIX I: TABULATION LIST

TYPE OF AGRICULTURAL HOUSEHOLDS.....	111
2.1: Number of Agriculture Households by type of Holding by District during 2007/08 Agriculture Year.....	112
2.2: Number of Agriculture Households By Type and Size of Holding, 2007/08 Agricultural Year - Mbeya Region.....	112
2.3: Number of Agriculture Households By Type and Size of Holding, 2007/08 Agricultural Year - Mbeya Region.....	113
HOUSEHOLD DEMOGRAPHICS.....	114
3.1: Number of Heads of Agricultural Households by Sex of Head and District, 2007/08 Agricultural Year.....	115
3.2: Number of Household Members classified by District and Sex.....	115
3.3: Number of Agricultural Household Members By Sex and Age Group, 2007/08 Agricultural Year, Mbeya Region	116
3.4: Number of Heads of Agricultural Households by Marital Status, Sex of Head and District, 2007/08 Agricultural Year	116
3.5: Number of Heads of Agricultural Households by Survival of Female Parent, Sex of Head and District, 2007/08 Agricultural Year	117
3.6: Number of Heads of Agricultural Households by Survival of Male Parent, Sex of Head and District, 2007/08 Agricultural Year	118
3.7: Number of Household Members Who Can Read and Write Languages by Type of Language and District	119
3.8: Number of Heads of Agricultural Households By Status of Writing and Reading Languages, Sex of Head and District, 2007/08 Agricultural Year.....	119
3.9: Number of Agricultural Household Members five years and above reporting Literacy Levels by Sex of Member and District, 2007/08 Agricultural Year	121

3.10: Number of Household Members Five years and Above by Education Status and District.....	121
3.11: Number of Heads of Agricultural Households by Education Status, Sex of Head and District, 2007/08 Agricultural Year	122
3.12: Number of Heads of Agricultural Households by Education Status, sex of head and District, 2007/08 Agricultural Year	122
3.13: Number of Agricultural Household Members By Level of Formal Education Completion and District, 2007/08 Agricultural Year.....	122
3.14: Number of Agricultural Household Members By Level of involvement in Farming Activity and District, 2007/08 Agricultural Year.....	124
3.15: Number of Heads of Agricultural Households by Main Activity and District , 2007/08 Agricultural Year.....	125
LAND OWNERSHIP AND LAND USE.....	126
4.1: Number of Agricultural Households by Type of Land Ownership/Tenure and District, 2007/08 Agricultural Year	127
4.2: Area of land (ha) by Ownership/Tenure and District for the 2007/08 Agriculture year	127
4.3: Number of Agriculture Households by whether All Land Available to the Household was used during 2007/08 Agriculture Year and District.....	128
4.4: Number of Agriculture Households by Whether they Consider Having Sufficient Land for the Household and District during 2007/08 agriculture year	128
4.5: Number of Agriculture Households By Whether Female Members of the Household Own or Have Cusomary Right to Land by District during 2007/08 Agriculture Year.....	128
4.6: Number of Agriculture Households by Type of Land Use and District for the 2007/08 agriculture year.....	129
4.7: Area of Land (ha) by land use and District for the 2007/08 Agriculture Year	129
CROP OWNERSHIP	130

5.1: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season - Chunya District	131
5.2: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Rainy Season - Mbeya Rural District	133
5.3: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season - Kyela District	135
5.4: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season - Rungwe District	137
5.5: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Rainy Seasons - Ileje District	139
5.6: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the Agriculture Year 2007/08 Short and Long Rainy Season - Mbozi District	141
5.7: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the Agriculture Year 2007/08 Short and Long Rainy Season - Mbarali District	143
5.8: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Rainy Season - Mbeya Urban District	145
5.9: Number of Household Members Owning Most of the Crop by Sex of the Main Owner, Season and District for the Agriculture Year 2007/08	147
5.10: Planted Area by District, Season and Sex of Household Members Owning Most of the Crop for the Agriculture Year 2007/08	147
CROP PRODUCTION BY DISTRICT-SHORT RAINY SEASON	148
5.11: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08	149

CROP PRODUCTION BY DISTRICT-LONG RAINY SEASON	156
5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08	157
CROP PRODUCTION GENERAL.....	167
5.13: Number of Crop Growing Households and Area Planted (ha) by Season and District	168
5.14: Number of Crop Growing Households Planting Crops by Season and District	168
5.15: Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Rainy Season - Mbeya Region	169
5.16: Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 Agriculture year - Mbeya Region.....	170
CROP STORAGE.....	171
5.17: Number of households Storing Crops Season and District	172
5.18: Number of Households Storing Crops by Method of Storage and Crop Type, Short Rainy Season - Mbeya Region	173
5.19: Number of Households Storing Crops by Method of Storage and Crop Type, Long Rainy Season - Mbeya Region	175
5.20: Number of Households Storing Crops by Method of Storage and Crop Type, Short and Long Rainy Season - Mbeya Region.....	177
5.21: Number of Crop Producing households reporting Selling agricultural produce during 2007/08 by District and Season.....	179
INPUT USE	180
5.22: Number of Households and Planted Area by Organic Fertiliser Use and District - SHORT RAINY SEASON.....	181
5.23: Number of Households and Planted Area by Organic Fertiliser Use and District - LONG RAINY SEASON.....	181
5.24: Number of Households and Planted Area by Inorganic Fertiliser Use and District - SHORT RAINY SEASON.....	182

5.25: Number of Households and Planted Area by Inorganic Fertiliser Use and District - LONG RAINY SEASON.....	182
5.26: Number of Households and Planted Area by Fungicide Use and District - Short Rainy Season.....	183
5.27: Number of Households and Planted Area by Fungicide Use and District - Long Rainy Season.....	183
5.28: Number of Households and Planted Area by Herbicide Use and District - Short Rainy Season.....	184
5.29: Number of Households and Planted Area by Herbicide Use and District - Long Rainy Season.....	184
5.30: Number of Households and Planted Area by Improved Seed Use and District - Short Rainy Season	185
5.31: Number of Households and Planted Area by Improved Seed Use and District - Long Rainy Season	185
5.32: Number of crop Growing Households and Planted Area (hectare) by Local Seed Use and District; 2007/08 Agriculture Year - SHORT Rainy Season	186
5.33: Number of Crop Growing Households and Planted Area (hectare) by Local Seed Use and District; 2007/08 Agriculture Year - LONG Rainy Season	186
5.34: Number of Households and Planted Area by Insecticides Use by District - SHORT RAINY SEASON.....	187
5.35: Number of Households and Planted Area by Fungicide Use and District - Long Rainy Season.....	187
5.36: Number of Households and Planted Area by Irrigation Use and District - SHORT RAINY SEASON.....	188
5.37: Number of Households and Planted Area by Irrigation Use and District - LONG RAINY SEASON.....	188
PERMANENT CROPS	189

5.38: Number of Households Planting Permanent Crops by District, 2007/08 Agriculture Year	190
5.39: Planted Area and Area Harvested by Type of Planting and District.....	190
5.40: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - Chunya	191
5.41: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - Mbeya Rural.....	191
5.42: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - Kyela.....	192
5.43: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - Rungwe	192
5.44: Area Planted, Area Harvested, Quantity Harvested and Yield by Type of Permanent Crop - Ileje	193
5.45: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - Mbozi	193
5.46: Area Planted, Area Harvested, Quantity Harvested and Yield by Type of Permanent Crop - Mbalali	194
5.47: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - Mbeya Region.....	194
5.48: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District.....	195
ACCESS TO AGRICULTURAL EQUIPMENTS.....	201
6.1: Number of Agriculture Households that used Agricultural Equipment/Asset by type and District for 2007/08 Agriculture Year	202
6.2: Number of Agricultural Equipment/Asset owned by type and District for 2007/08 agriculture year.....	203

6.3: Number of Agricultural Households that Used Tractors/Draft Animals to cultivate Land by Type and District for 2007/08 agriculture year.....	204
6.4: Number of Tractors/Draft animals Owned by Type and District for 2007/08 Agriculture year.....	204
IRRIGATION	205
6.5: Number of Agriculture Households reporting use of Irrigation during 2007/08 agricultural Year by District.....	206
6.6: Number of Agriculture Households using irrigation by Source of Irrigation Water by District during the 2007/08 agricultural Year	206
6.7: Number of Agriculture Households by method of used to obtain water and District during 2007/08 agriculture year	206
EROSION CONTROL	207
6.8: Number of Households with Soil Erosion Problem on the Farming Land By District	208
6.9: Number of Households with Erosion Control/Water Harvesting Facilities on their Land by District.....	208
6.10: Number of Erosion Control/Water Harvesting Structures by Type and District as of 2007/08 Agriculture Year.....	208
AGRICULTURE CREDIT	209
7.1: Number of Agriculture Households receiving Credit by District During the 2007/08 Agriculture Year.....	210
7.2: Number of Credits by sex of the household Member receiving credit from source B and District During the 2007/08 Agriculture Year.....	210
7.3: Number of Households receiving Credits by Main Source of credit and District During the 2007/08 Agriculture Year.....	211
7.4: Number of Households Reporting the Main reasons for Not Using Credit by District During the 2007/08 Agriculture Year	211

7.5: Number of Households receiving Credits by Main Source of credit B and District During the 2007/08 Agriculture Year	212
7.6: Number of Households receiving Credits by Main Source of credit C and District During the 2007/08 Agriculture Year	212
7.7: Provision of credit A by Sex and District during the 2007/08 Agriculture Year	213
7.8: Provision of credit B by Sex and District during the 2007/08 Agriculture Year.....	213
7.9: Provision of credit C by Sex and District during the 2007/08 Agriculture Year.....	213
CROP EXTENSION SERVICE	214
8.1: Number of Agriculture Households that received Crop Advice during the 2007/08 Agriculture Year.....	215
8.2: Number of Agriculture Households Participated in Out Grower Agreement during the 2007/08 Agriculture Year.....	215
8.3: Number of Agriculture Households Participated in Contract Production Agreement during the 2007/08 Agriculture Year	216
8.4: Number of Agriculture Households By Source of Extension Messages By District during the 2007/08 Agriculture Year	217
8.5: Number of households receiving extension advice on Spacing by district during the 2007/08 agriculture year.....	217
8.6: Number of households receiving extension advice on Use of Agrochemicals by District during the 2007/08 agriculture year	218
8.7: Number of households receiving extension advice on Erosion Control by District during the 2007/08 agriculture year	218
8.8: Number of households receiving extension advice on Organic Fertilizer use by District during the 2007/08 agriculture year	219
8.9: Number of households receiving extension advice on use of Inorganic Fertilizer by District during the 2007/08 agriculture year	219

8.10: Number of households receiving extension advice on Use of Improved Seeds by District during the 2007/08 agriculture year	220
8.11: Number of households receiving extension advice on Use of Mechanization by District during the 2007/08 agriculture year	220
8.12: Number of households receiving extension advice on Use of Irrigation Technology by District during the 2007/08 agriculture year	221
AGRICULTURE CONSTRAINTS	222
9.1: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year	223
9.2: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year	225
9.3: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year	228
9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year	232
CATTLE PRODUCTION	239
9.5: Total Number of Households Rearing Cattle by District during 2007/08 Agriculture Year	240
9.6: Number of Cattle by Type and District as of 1st October 2008	240
9.7: Number of Households Rearing Cattle, Number of Cattle and Average Number of Cattle per Household by Herd size During the 2007/08 Agricultural Year	241
9.8: Total Number of Cattle by Cattle Breed and Economic Function, 2007/08 Agricultural Year	241
9.9: Total Number of indigenous Cattle by Category of cattle and District During the 2007/08 Agricultural Year	242
9.10: Total Number of Improved Beef Cattle by Category of cattle and District During the 2007/08 Agricultural Year	242

9.11: Total Number of Improved Dairy Cattle by Category of Cattle and District during the 2007/08 Agricultural Year	243
9.12: Total Number Households rearing Cattle and Method of Cattle Identification by District during, 2007/08 Agricultural Year	243
CATTLE MILK.....	244
9.13: Number of Milked Cow by Category of Cattle, Season type and District, During the 2007/08 Agricultural Year	245
9.14: Average milk production per cow per day, by Category of Cow, Season, and District, During the 2007/08 Agricultural Year	245
9.16: Average Cattle Milk price (Tshs/litre) per season by category of cow and District, During the 2007/08 Agricultural Year	246
9.17: Average Cattle Milk price (Tshs/litre) per season by category of cow and Region, During the 2007/08 Agricultural Year	246
9.18: Average Cattle Milk price (Tshs/litre) per season by category of cow and District, During the 2007/08 Agricultural Year	247
9.15: Average number of days for cows on milked, by category of Cattle, Season and District, During the 2007/08 Agricultural Year	247
GOAT PRODUCTION.....	248
9.19: Number of Agriculture Households Rearing Goats by District during the 2007/08 Agricultural Year.....	249
9.20: Number of Goats by Type and District as of 1st October 2008.....	249
9.21: Number of Households rearing Goat, Head of Goat and Average Head per Household by Herd size During the 2007/08 Agricultural Year - MBEYA	250
9.22: Total Number of Goats by Category and Type of Goat as of 1st October 2008 – MBEYA.....	250
9.23: Total Number of Indigenous Goat by Category and District as of 1st October 2008.....	250
SHEEP PRODUCTION.....	251

9.24: Number of Households Rearing Sheep by District during the 2007/08 Agriculture Year	252
9.25: Number of Sheep by Type and District as of 1st October 2008	252
9.26: Total Number of Indigenous Sheep by Category of Sheep and District as of 1st October 2007/08 Agriculture year.....	253
9.27: Number of Households rearing Sheep, Head of Sheep and Average Head per Household by Herd size During the 2007/08 Agricultural Year, MBEYA	253
9.28: Total Number of Sheep by Breed Type During the 2007/08 Agriculture Year – MBEYA.....	253
PIG PRODUCTION	254
9.29: Number of Households Raising Pigs by District during 2007/08 Agriculture Year.....	255
9.30: Number of Pigs per Household by District as of 1st October 2008	255
9.31: Number of Households Rearing Pigs, Head of Pigs and Average Head per Household by Herd Size as of 1st October 2008 - MBEYA	256
9.32: Total Number of Pigs by Type of Pigs and District as of 1st October 2008.....	256
CHICKEN AND OTHER LIVESTOCK.....	257
9.33: Number of Chicken by Type and District as of 1st October 2008	258
9.34: Number of Households Keeping Chickens and Average Number of Chickens per Household by Flock Size as of 1st October 2008 - MBEYA.....	258
9.35: Number of Other Livestock by Type of livestock and Region as of 1st October 2008	259
9.36: Total Number of Chicken and Other Livestock by Type as of 1st October 2008.....	259
PESTS AND PARASITES	260
9.37: Number of Livestock Rearing households deworming Livestock by District during 2007/08 Agriculture Year.....	261
9.38: Number of Livestock Rearing households that dewormed Livestock by type of livestock and district, 2007/08 Agricultural Year	261

9.39: Number of Livestock Rearing Households Normally Encountering Tick Problems by District during 2007/08 Agriculture Year	262
9.40: Number of Livestock Rearing Households by Method of Tick Control and District during 2007/08 Agriculture Year	262
9.41: Number of Livestock Rearing Households normally Encountering Tsetse Flies Problems by District during 2007/08 Agriculture Year	263
9.42: Number of Livestock Rearing Households by Method of Tsetse Flies Control and District during 2007/08 Agriculture Year	263
9.43: Number of Livestock Rearing Households normally Encountering Newcastle Disease Problems by District during 2007/08 Agriculture Year	264
9.44: Number of Livestock Rearing Households by Method of Newcastle Disease Control and District during 2007/08 Agriculture Year	264
9.45: Number of Livestock Rearing Households normally Encountering Fowl Typhoid Disease Problems by District during 2007/08 Agriculture Year.....	265
9.46: Number of Livestock Rearing Households normally Encountering Fowl Typhoid Disease Problems by District during 2007/08 Agriculture Year.....	265
9.47: Number of Livestock Rearing Households normally Encountering Foot and Mouth Disease Problems by Region during 2007/08 Agriculture Year	266
9.48: Number of Livestock Rearing Households normally Encountering Lymphskin Disease Problems by District during 2007/08 Agriculture Year	266
LIVESTOCK EXTENSION SERVICE	267
9.49: Number of households receiving extension advice by region during the 2007/08 agriculture year.....	268
9.50: Number of Households receiving Livestock advice (overall) By Source of Extension and District during the 2007/08 agriculture year	269
9.51: Number of Agriculture Households Receiving Advice on Feeds and Proper Feeding by Source and District During 2007/08 Agriculture Year	269

9.52: Number of households receiving extension advice on Proper Livestock Housing by District during the 2007/08 agriculture year	270
9.53: Number of households receiving extension advice on Proper Milking and Milk Hygiene by District during the 2007/08 agriculture year	270
9.54: Number of households receiving extension advice on Livestock fattening by District during the 2007/08 agriculture year	271
9.55: Number of households receiving extension advice on Disease control (dipping/spraying) by District during the 2007/08 agriculture year.....	271
9.56: Number of households receiving extension advice on Herd/Flock size and selection by District during the 2007/08 agriculture year	272
9.57: Number of households receiving extension advice on Pasture Establishment by District during the 2007/08 agriculture year	272
9.58: Number of households receiving extension advice on Group formation and strengthening by District during the 2007/08 agriculture year.....	273
9.59: Number of households receiving extension advice on Use of improved Bulls by District during the 2007/08 agriculture year	273
9.60: Number of households receiving extension advice on Livestock Feeds processing by District during the 2007/08 agriculture year	274
FISH FARMING	275
9.61: Total Number of Fish Harvested by Type and District, 2007/08 Agricultural Year.....	276
9.62: Number of Agricultural Households By level of care of fish ponds and District, 2007/08 Agricultural Year	276
BEE KEEPING.....	277
9.63: Number of Agricultural Households involved in Honey Production/Collection and District, 2007/08 Agricultural Year	278
9.64: Number of Agriculture Households Harvesting Honey by Type of Bee and District during the 2007/08 Agriculture Year	278

9.65: Number of Agricultural Households, type of bee Hives and type of bees and District , 2007/08 Agricultural Year	279
9.66: Quantity of Honey Harvested and Sold by Size of Bees and District during the 2007/08 Agriculture Year.....	279
9.67: Average price of Honey (Tshs/litre) by Size of Bees and District during the 2007/08 Agriculture Year.....	280
9.68: Number of Agriculture Households by Location of Selling Honey and District during the 2007/08 Agriculture Year.....	280
HOUSEHOLD FACILITIES.....	281
10.1: Number of households reporting average number of rooms and type of Roofing Materials and District, 2007/08 Agricultural Year.....	282
10.2: Number of households by type of Floor Materials and Region, 2007/08 Agricultural Year.....	282
10.3: Number of households by type of Wall Materials and District, 2007/08 Agricultural Year.....	283
10.4: Number of Agricultural Households reporting ownership of Assets by District, 2007/08 Agricultural Year	283
10.5: Number of Agricultural Households Reporting Main Source of Energy for Lighting by District, 2007/08 Agricultural Year	284
10.6: Number of Agricultural Households Reporting Main Source of Energy for Cooking by District, 2007/08 Agricultural Year	285
10.7: Number of Agricultural Households Reporting Time Spent to and from Main Source of Drinking Water during Wet Season by District, 2007/08 Agricultural Year	285

APPENDIX II: TABLES

TYPE OF AGRICULTURAL HOUSEHOLDS

2.1: Number of Agriculture Households by type of Holding by District during 2007/08 Agriculture Year

District	Crops Only		Livestock Only		Pastoralist		Crops & Livestock		Total Number of Households	Total Number of Households Growing Crops	Total Number of Households Rearing Livestock
	Number of households	%	Number of households	%	Number of households	%	Number of households	%			
Chunya	34,219	68	0	0	0	0	16,360	32	50,580	50,580	16,360
Mbeya Rural	37,077	58	0	0	0	0	27,370	42	64,448	64,448	27,370
Kyela	23,024	50	564	1	0	0	22,121	48	45,709	45,144	22,685
Rungwe	35,509	43	0	0	0	0	47,141	57	82,649	82,649	47,141
Ileje	13,597	43	0	0	0	0	18,234	57	31,830	31,830	18,234
Mbozi	62,147	54	0	0	0	0	52,782	46	114,929	114,929	52,782
Mbarali	33,054	65	252	0	0	0	17,789	35	51,095	50,843	18,041
Mbeya Urban	9,169	67	641	5	0	0	3,773	28	13,584	12,942	4,415
Total	247,796	54	1,458	0	0	0	205,570	45	454,824	453,366	207,028

2.2: Number of Agriculture Households By Type and Size of Holding, 2007/08 Agricultural Year - Mbeya Region

Size of Holding	Type of Agriculture Household									
	Crops only		Livestock only		Pastoralist		Crops and Livestock		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0.01 - 0.50	44,112	76.5	1,420	2.5	0	0	12,164	21.1	57,696	100
0.51 - 1.00	71,667	64	38	0	0	0	39,767	36	111,472	100
1.01 - 1.50	51,999	53	0	0	0	0	46,164	47	98,163	100
1.51 - 2.00	25,887	48	0	0	0	0	28,160	52	54,046	100
2.01 - 2.50	25,629	48	0	0	0	0	27,357	52	52,987	100
2.51 - 3.00	6,920	41	0	0	0	0	9,895	59	16,815	100
3.01 - 3.50	4,327	32	0	0	0	0	9,245	68	13,572	100
3.51 - 4.00	1,498	28	0	0	0	0	3,848	72	5,346	100
4.01 - 4.50	4,998	42	0	0	0	0	6,962	58	11,960	100
4.51 - 5.00	1,457	31	0	0	0	0	3,247	69	4,704	100
Above 5	9,302	33	0	0	0	0	18,760	67	28,062	100
Total	247,796	54	1,458	0	0	0	205,570	45	454,824	100

2.3: Number of Agriculture Households By Type and Size of Holding, 2007/08 Agricultural Year - Mbeya Region

Size of Holding	Type of Agriculture Household									
	Crops only		Livestock only		Pastoralist		Crops and Livestock		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0.01 - 0.50	44,112	18	1,420	97	0	0	12,164	6	57,696	13
0.51 - 1.00	71,667	29	38	3	0	0	39,767	19	111,472	25
1.01 - 1.50	51,999	21	0	0	0	0	46,164	22	98,163	22
1.51 - 2.00	25,887	10	0	0	0	0	28,160	14	54,046	12
2.01 - 2.50	25,629	10	0	0	0	0	27,357	13	52,987	12
2.51 - 3.00	6,920	3	0	0	0	0	9,895	5	16,815	4
3.01 - 3.50	4,327	2	0	0	0	0	9,245	4	13,572	3
3.51 - 4.00	1,498	1	0	0	0	0	3,848	2	5,346	1
4.01 - 4.50	4,998	2	0	0	0	0	6,962	3	11,960	3
4.51 - 5.00	1,457	1	0	0	0	0	3,247	2	4,704	1
Above 5	9,302	4	0	0	0	0	18,760	9	28,062	6
Total	247,796	100	1,458	100	0	0	205,570	100	454,824	100

HOUSEHOLD DEMOGRAPHICS

**3.1: Number of Heads of Agricultural Households by Sex of Head and District, 2007/08
Agricultural Year**

District	Male		Female		Total
	Number	Percent	Number	Percent	
Chunya	43,211	85	7,368	15	50,580
Mbeya (R)	43,761	68	20,687	32	64,448
Kyela	32,165	70	13,543	30	45,709
Rungwe	56,120	68	26,529	32	82,649
Ileje	24,521	77	7,309	23	31,830
Mbozi	85,984	75	28,945	25	114,929
Mbarali	36,965	72	14,130	28	51,095
Mbeya Urban	11,169	82	2,415	18	13,584
Total	333,897	73	120,927	27	454,824

3.2: Number of Household Members classified by District and Sex

District	Male		Female		Total
	Number	Percent	Number	Percent	
Chunya	129,135	50	127,012	50	256,146
Mbeya (R)	137,330	48	147,832	52	285,162
Kyela	99,318	47	110,716	53	210,034
Rungwe	161,013	47	180,400	53	341,414
Ileje	67,904	48	72,620	52	140,524
Mbozi	251,710	50	254,831	50	506,541
Mbarali	111,147	48	120,231	52	231,378
Mbeya Urban	31,017	49	32,375	51	63,392
Total	988,573	49	1,046,017	51	2,034,590

**3.3: Number of Agricultural Household Members By Sex and Age Group, 2007/08
Agricultural Year, Mbeya Region**

Age Group	Sex					
	Male		Female		Total	
	Number	%	Number	%	Number	%
Less than 4	122,835	48	134,503	52	257,338	100
5 - 9	157,924	52	143,361	48	301,285	100
10 - 14	158,944	52	145,646	48	304,590	100
15 - 19	125,474	50	126,392	50	251,867	100
20 - 24	64,899	41	91,755	59	156,653	100
25 - 29	67,451	43	90,087	57	157,538	100
30 - 34	56,042	47	63,681	53	119,723	100
35 - 39	49,366	45	59,595	55	108,961	100
40 - 44	38,083	46	44,187	54	82,269	100
45 - 49	36,361	50	35,690	50	72,051	100
50 - 54	26,572	49	27,334	51	53,906	100
55 - 59	17,562	49	18,249	51	35,811	100
60 - 64	21,108	51	20,683	49	41,790	100
65 - 69	13,709	50	13,442	50	27,150	100
70 - 74	12,689	47	14,576	53	27,265	100
75 - 79	9,092	56	7,097	44	16,188	100
80 - 84	5,925	52	5,429	48	11,354	100
Above 85	4,538	51	4,312	49	8,849	100
Total	988,573	49	1,046,017	51	2,034,590	100

3.4: Number of Heads of Agricultural Households by Marital Status, Sex of Head and District, 2007/08 Agricultural Year

District	Married						Not Married					
	Male		Female		Total		Male		Female		Total	
Chunya	37,467	96	1,748	4	39,215	100	1,374	65	749	35	2,123	100
Mbeya (R)	41,215	79	10,980	21	52,195	100	477	50	477	50	955	100
Kyela	27,425	94	1,806	6	29,231	100	2,257	65	1,241	35	3,499	100
Rungwe	48,773	88	6,530	12	55,304	100	3,061	83	612	17	3,673	100
Ileje	22,870	92	2,043	8	24,914	100	629	62	393	38	1,022	100
Mbozi	81,444	86	13,337	14	94,781	100	568	20	2,270	80	2,838	100
Mbarali	32,676	87	4,920	13	37,596	100	1,135	75	378	25	1,514	100
Mbeya Urban	10,112	91	1,019	9	11,131	100	377	100	0	0	377	100
Total	301,982	88	42,384	12	344,367	100	9,879	62	6,122	38	16,001	100

**Cont. 3.4 :Number of Heads of Agricultural Households by Marital Status, sex of head and District, 2007/08
Agricultural Year**

District	Living together						Separated					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Chunya	2,997	96	125	4	3,122	100	500	29	1,249	71	1,748	100
Mbeya (R)	0	0	159	100	159	100	796	50	796	50	1,591	100
Kyela	0	0	0	0	0	0	1,354	33	2,709	67	4,063	100
Rungwe	0	0	612	100	612	100	1,633	47	1,837	53	3,469	100
Ileje	0	0	0	0	0	0	314	33	629	67	943	100
Mbozi	284	50	284	50	568	100	1,135	24	3,689	76	4,824	100
Mbarali	126	100	0	0	126	100	1,262	28	3,280	72	4,542	100
Mbeya Urban	0	0	0	0	0	0	377	83	75	17	453	100
Total	3,407	74	1,180	26	4,587	100	7,371	34	14,263	66	21,634	100

**Cont. 3.4 :Number of Heads of Agricultural Households by Marital Status, Sex of Head and District, 2007/08
Agricultural Year**

District	Widowed						Total					
	Male	%	Male	%	Male	%	Male	%	Male	%	Male	%
Chunya	874	20	3,497	80	4,371	100	43,211	85	7,368	15	50,580	100
Mbeya (R)	1,273	13	8,275	87	9,548	100	43,761	68	20,687	32	64,448	100
Kyela	1,129	13	7,787	87	8,916	100	32,165	70	13,543	30	45,709	100
Rungwe	2,653	14	16,938	86	19,591	100	56,120	68	26,529	32	82,649	100
Ileje	707	14	4,244	86	4,951	100	24,521	77	7,309	23	31,830	100
Mbozi	2,554	21	9,365	79	11,919	100	85,984	75	28,945	25	114,929	100
Mbarali	1,766	24	5,551	76	7,317	100	36,965	72	14,130	28	51,095	100
Mbeya Urban	302	19	1,321	81	1,623	100	11,169	82	2,415	18	13,584	100
Total	11,258	16	56,977	84	68,236	100	333,897	73	120,927	27	454,824	100

**3.5: Number of Heads of Agricultural Households by Survival of Female Parent, Sex of Head and District, 2007/08
Agricultural Year**

District	Yes						No					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Chunya	20,856	88	2,748	12	23,604	100	22,230	83	4,621	17	26,851	100
Mbeya (R)	15,277	76	4,774	24	20,050	100	28,325	64	15,913	36	44,238	100
Kyela	9,932	79	2,709	21	12,640	100	22,121	67	10,835	33	32,955	100
Rungwe	19,387	80	4,898	20	24,285	100	36,733	63	21,632	37	58,365	100
Ileje	11,553	83	2,358	17	13,911	100	12,968	72	4,951	28	17,919	100
Mbozi	38,594	77	11,351	23	49,945	100	46,823	73	17,310	27	64,133	100
Mbarali	14,130	80	3,532	20	17,662	100	22,835	69	10,471	31	33,306	100
Mbeya Urban	3,962	89	491	11	4,453	100	7,169	79	1,924	21	9,094	100
Total	133,690	80	32,860	20	166,550	100	199,204	69	87,658	31	286,862	100

Cont. 3.5 :Number of Heads of Agricultural Households by Survival of Female Parent, Sex of Head and District, 2007/08 Agricultural Year

District	Don't know						Total					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Chunya	125	100	0	0	125	100	43,211	85	7,368	15	50,580	100
Mbeya (R)	159	100	0	0	159	100	43,761	68	20,687	32	64,448	100
Kyela	113	100	0	0	113	100	32,165	70	13,543	30	45,709	100
Rungwe	0	0	0	0	0	0	56,120	68	26,529	32	82,649	100
Ileje	0	0	0	0	0	0	24,521	77	7,309	23	31,830	100
Mbozi	568	67	284	33	851	100	85,984	75	28,945	25	114,929	100
Mbarali	0	0	126	100	126	100	36,965	72	14,130	28	51,095	100
Mbeya Urban	38	100	0	0	38	100	11,169	82	2,415	18	13,584	100
Total	1,002	71	410	29	1,412	100	333,897	73	120,927	27	454,824	100

3.6: Number of Heads of Agricultural Households by Survival of Male Parent, Sex of Head and District, 2007/08 Agricultural Year

District	Yes						No					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Chunya	26,351	87	3,872	13	30,223	100	16,735	83	3,497	17	20,232	100
Mbeya (R)	24,983	76	7,957	24	32,940	100	18,618	59	12,730	41	31,349	100
Kyela	15,575	78	4,402	22	19,976	100	16,591	64	9,142	36	25,732	100
Rungwe	29,182	76	9,183	24	38,366	100	26,938	61	17,346	39	44,284	100
Ileje	15,719	81	3,615	19	19,334	100	8,802	70	3,694	30	12,496	100
Mbozi	57,607	79	15,040	21	72,647	100	28,378	67	13,905	33	42,283	100
Mbarali	19,807	77	5,930	23	25,737	100	17,158	68	8,074	32	25,232	100
Mbeya Urban	6,641	87	981	13	7,622	100	4,528	76	1,434	24	5,962	100
Total	195,866	79	50,979	21	246,844	100	137,747	66	69,822	34	207,570	100

Cont. 3.6: Number of Heads of Agricultural Households by Survival of Male Parent, Sex of Head and District, 2007/08 Agricultural Year

District	Don't know						Total					
	Male		Female		Total		Male		Female		Total	
Chunya	125	100	0	0	125	100	43,211	85	7,368	15	50,580	100
Mbeya (R)	159	100	0	0	159	100	43,761	68	20,687	32	64,448	100
Kyela	0	0	0	0	0	0	32,165	70	13,543	30	45,709	100
Rungwe	0	0	0	0	0	0	56,120	68	26,529	32	82,649	100
Ileje	0	0	0	0	0	0	24,521	77	7,309	23	31,830	100
Mbozi	0	0	0	0	0	0	85,984	75	28,945	25	114,929	100
Mbarali	0	0	126	100	126	100	36,965	72	14,130	28	51,095	100
Mbeya Urban	0	0	0	0	0	0	11,169	82	2,415	18	13,584	100
Total	284	69	126	31	410	100	333,897	73	120,927	27	454,824	100

3.7: Number of Household Members Who Can Read and Write Languages by Type of Language and District

District	Swahili		Swahili & English		Any Other Language		Don't Read / Write		Total
	Number	%	Number	%	Number	%	Number	%	
Chunya	146,619	66.0	10,991	3.2	500	0.2	64,193	28.9	222,302
Mbeya (R)	168,519	66.5	23,551	8.1	0	0.0	61,424	24.2	253,494
Kyela	131,709	70.6	22,572	10.8	113	0.1	32,165	17.2	186,559
Rungwe	200,400	67.2	33,468	10.0	0	0.0	64,283	21.6	298,150
Ileje	88,574	71.6	11,868	8.1	0	0.0	23,342	18.9	123,784
Mbozi	301,087	69.3	22,986	4.5	0	0.0	110,105	25.4	434,178
Mbarali	131,711	65.0	11,228	4.3	0	0.0	59,548	29.4	202,487
Mbeya(U)	38,827	69.0	7,810	12.2	113	0.2	9,546	17.0	56,297
Total	1,207,446	67.9	144,474	6.9	726	0.0	424,607	23.9	1,777,252

3.8: Number of Heads of Agricultural Households By Status of Writing and Reading Languages, Sex of Head and District, 2007/08 Agricultural Year

District	Swahili						Swahili & English					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Chunya	32,846	88	4,371	12	37,217	100	2,498	91	250	9	2748	100
Mbeya (R)	32,144	82	6,843	18	38,987	100	2,546	76	796	24	3,342	100
Kyela	21,669	81	5,192	19	26,861	100	4,627	85	790	15	5,417	100
Rungwe	40,610	78	11,428	22	52,039	100	5,306	93	408	7	5,714	100
Ileje	18,155	85	3,301	15	21,456	100	1,886	89	236	11	2,122	100
Mbozi	68,106	83	14,189	17	82,295	100	4,257	94	284	6	4,540	100
Mbarali	25,863	78	7,317	22	33,180	100	2,397	86	378	14	2,776	100
Mbeya(U)	8,339	89	1,057	11	9,396	100	1,434	97	38	3	1,472	100
Total	247,733	82	53,697	18	301,430	100	24,951	89	3,179	11	28,130	100

Cont. 3.8 : Number of Heads of Agricultural Households By Status of writing and reading Languages, sex of head and District, 2007/08 Agricultural Year

District	Any Other Language						Don't Read / Write					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Chunya	250	100	0	0	250	100	7,618	73	2,748	27	10,366	100
Mbeya (R)	0	0	0	0	0	0	9,070	41	13,049	59	22,119	100
Kyela	0	0	0	0	0	0	5,869	44	7,562	56	13,430	100
Rungwe	0	0	0	0	0	0	10,204	41	14,693	59	24,897	100
Ileje	0	0	0	0	0	0	4,480	54	3,772	46	8,252	100
Mbozi	0	0	0	0	0	0	13,621	48	14,473	52	28,094	100
Mbarali	0	0	0	0	0	0	8,705	58	6,434	43	15,139	100
Mbeya (U)	38	100	0	0	38	100	1,358	51	1,321	49	2,679	100
Total	288	100	0	0	288	100	60,926	49	64,051	51	124,977	100

Cont. 3.8 : Number of Heads of Agricultural Households By Status of writing and reading Languages, Sex of head and District, 2007/08 Agricultural Year

District	Total					
	Male	%	Female	%	Total	%
Chunya	43,211	85	7,368	15	50,580	100
Mbeya (R)	43,761	68	20,687	32	64,448	100
Kyela	32,165	70	13,543	30	45,709	100
Rungwe	56,120	68	26,529	32	82,649	100
Ileje	24,521	77	7,309	23	31,830	100
Mbozi	85,984	75	28,945	25	114,929	100
Mbarali	36,965	72	14,130	28	51,095	100
Mbeya(U)	11,169	82	2,415	18	13,584	100
Total	333,897	73	120,927	27	454,824	100

3.9: Number of Agricultural Household Members five years and above reporting Literacy Levels by Sex of Member and District, 2007/08 Agricultural Year

District	Male						Female						Total					
	Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	82,551	74	29,349	26	111,900	100	75,558	68	34,844	32	110,401	100	158,109	71	64,193	29	222,302	100
Mbeya (R)	99,775	82	22,437	18	122,212	100	92,296	70	38,987	30	131,283	100	192,070	76	61,424	24	253,494	100
Kyela	76,068	87	11,286	13	87,354	100	78,325	79	20,879	21	99,205	100	154,394	83	32,165	17	186,559	100
Rungwe	115,301	82	25,509	18	140,810	100	118,566	75	38,774	25	157,340	100	233,867	78	64,283	22	298,150	100
Ileje	49,671	84	9,510	16	59,180	100	50,771	79	13,832	21	64,603	100	100,442	81	23,342	19	123,784	100
Mbozi	171,401	78	47,107	22	218,508	100	152,672	71	62,998	29	215,670	100	324,073	75	110,105	25	434,178	100
Mbarali	72,416	74	25,737	26	98,153	100	70,524	68	33,811	32	104,335	100	142,940	71	59,548	29	202,487	100
Mbeya U	23,810	86	3,811	14	27,621	100	22,942	80	5,735	20	28,677	100	46,751	83	9,546	17	56,297	100
Total	690,993	80	174,746	20	865,738	100	661,653	73	249,861	27	911,514	100	1,352,645	76	424,607	24	1,777,252	100

3.10: Number of Household Members Five years and Above by Education Status and District

District	Attending School	%	Completed	%	Never Attended to School	%	Total
Chunya	79,554	11	86,423	12	56,325	8	222,301
Mbeya (R)	99,616	14	101,366	14	52,513	7	253,495
Kyela	77,761	11	82,614	12	26,184	4	186,559
Rungwe	129,586	18	118,362	17	50,202	7	298,150
Ileje	50,771	7	52,972	7	20,041	3	123,784
Mbozi	178,495	25	170,550	24	85,133	12	434,178
Mbarali	68,253	10	79,229	11	55,006	8	202,487
Mbeya U	24,225	3	24,677	3	7,396	1	56,298
Total	708,261	40	716,193	40	352,799	20	1,777,252

3.11: Number of Heads of Agricultural Households by Education Status, Sex of Head and District, 2007/08 Agricultural Year

District	Attending School						Completed					
	Male		Female		Total		Male		Female		Total	
Chunya	500	80	125	20	624	100	33,595	89	4,246	11	37,841	100
Mbeya (R)	955	86	159	14	1,114	100	33,895	82	7,638	18	41,533	100
Kyela	677	86	113	14	790	100	25,958	80	6,320	20	32,278	100
Rungwe	1,224	75	408	25	1,633	100	44,692	78	12,653	22	57,344	100
Ileje	629	89	79	11	707	100	19,491	85	3,458	15	22,949	100
Mbozi	2,270	100	0	0	2,270	100	70,377	83	14,473	17	84,849	100
Mbarali	505	100	0	0	505	100	27,377	77	8,074	23	35,451	100
Mbeya Urban	151	100	0	0	151	100	9,660	90	1,094	10	10,754	100
Total	6,910	89	884	11	7,794	100	265,044	82	57,956	18	323,000	100

3.12: Number of Heads of Agricultural Households by Education Status, sex of head and District, 2007/08 Agricultural Year

District	Never Attended to School						Total					
	Male		Female		Total		Male		Female		Total	
Chunya	9,117	75	2,997	25	12,114	100	43,211	85	7,368	15	50,580	100
Mbeya (R)	8,911	41	12,890	59	21,801	100	43,761	68	20,687	32	64,448	100
Kyela	5,530	44	7,110	56	12,640	100	32,165	70	13,543	30	45,709	100
Rungwe	10,204	43	13,469	57	23,672	100	56,120	68	26,529	32	82,649	100
Ileje	4,401	54	3,772	46	8,174	100	24,521	77	7,309	23	31,830	100
Mbozi	13,337	48	14,473	52	27,810	100	85,984	75	28,945	25	114,929	100
Mbarali	9,084	60	6,056	40	15,139	100	36,965	72	14,130	28	51,095	100
Mbeya Urban	1,358	51	1,321	49	2,679	100	11,169	82	2,415	18	13,584	100
Total	61,943	50	62,087	50	124,030	100	333,897	73	120,927	27	454,824	100

3.13: Number of Agricultural Household Members By Level of Formal Education Completion and District, 2007/08 Agricultural Year

District	Education Level											
	Under Standard One		Standard One		Standard Two		Standard Three		Standard Four		Standard Five	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	250	0	0	0	749	1	1,624	2	4,371	5	1,249	1
Mbeya (R)	0	0	1,273	1	1,750	2	2,228	2	6,206	6	1,591	2
Kyela	113	0	677	1	1,467	2	1,580	2	4,176	5	2,822	3
Rungwe	0	0	1,020	1	2,245	2	2,857	2	9,183	8	2,041	2
Ileje	157	0	472	1	865	2	550	1	1,729	3	236	0
Mbozi	0	0	1,703	1	3,122	2	3,973	2	7,662	4	3,122	2
Mbarali	252	0	252	0	883	1	1,388	2	5,803	7	883	1
Mbeya U	75	0	189	1	226	1	189	1	906	4	415	2
Total	848	0	5,586	1	11,307	2	14,388	2	40,036	6	12,358	2

cont 3.13: Number of Agricultural Household Members By Level of Formal Education Completion and District, 2007/08 Agricultural Year

District	Education Level											
	Form Two		Form Three		Form Four		Form Five		Form Six		Training After Secondary Education	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	999	1	125	0	1,499	2	0	0	250	0	375	0
Mbeya (R)	955	1	159	0	1,750	2	0	0	159	0	318	0
Kyela	1,129	1	677	1	3,499	4	113	0	226	0	0	0
Rungwe	1,837	2	612	1	3,061	3	0	0	612	1	0	0
Ileje	393	1	0	0	707	1	0	0	0	0	236	0
Mbozi	284	0	851	0	3,973	2	0	0	1,135	1	284	0
Mbarali	378	0	126	0	2,271	3	0	0	252	0	378	0
Mbeya Urban	453	2	226	1	1,811	7	0	0	113	0	453	2
Total	6,427	1	2,777	0	18,571	3	113	0	2,747	0	2,044	0

cont 3.13: Number of Agricultural Household Members By Level of Formal Education Completion and District, 2007/08 Agricultural Year

District	Education Level											
	Standard Six		Standard Seven		Standard Eight		Training After Primary Education		Pre Form One		Form One	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	1,249	1	71,062	82	375	0	500	1	0	0	624	1
Mbeya (R)	1,591	2	79,883	79	159	0	955	1	0	0	318	0
Kyela	3,273	4	60,155	73	1,241	2	677	1	113	0	339	0
Rungwe	3,469	3	87,751	74	2,245	2	204	0	0	0	0	0
Ileje	629	1	45,191	85	236	0	393	1	0	0	314	1
Mbozi	3,689	2	135,078	79	568	0	568	0	284	0	851	0
Mbarali	378	0	61,314	77	883	1	126	0	0	0	757	1
Mbeya Urb	340	1	17,999	73	226	1	189	1	151	1	75	0
Total	14,618	2	558,432	78	5,933	1	3,611	1	548	0	3,279	0

cont 3.13 : Number of Agricultural Household Members By Level of Formal Education Completion and District, 2007/08 Agricultural Year

District	Education Level							
	University & Other Tertiary Education		Adult Education		Not applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Chunya	500	1	624	1	0	0	86,423	100
Mbeya (R)	0	0	1,910	2	159	0	101,366	100
Kyela	0	0	0	0	339	0	82,614	100
Rungwe	0	0	612	1	612	1	118,362	100
Ileje	0	0	865	2	0	0	52,972	100
Mbozi	284	0	2,554	1	568	0	170,550	100
Mbarali	126	0	2,397	3	378	0	79,229	100
Mbeya Urban	75	0	415	2	151	1	24,677	100
Total	985	0	9,377	1	2,207	0	716,193	100

3.14: Number of Agricultural Household Members By Level of involvement in Farming Activity and District, 2007/08 Agricultural Year

District	Involvement in Farming									
	Works Full-time on Farm		Works Part-time on Farm		Rarely Works on Farm		Never Works on Farm		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	109,652	49	11,864	5	40,589	18	60,196	27	222,301	100
Mbeya (R)	128,577	51	4,456	2	39,783	16	80,679	32	253,495	100
Kyela	89,837	48	5,869	3	49,094	26	41,758	22	186,559	100
Rungwe	137,953	46	3,877	1	72,854	24	83,466	28	298,150	100
Ileje	62,638	51	8,409	7	24,678	20	28,058	23	123,784	100
Mbozi	215,102	50	5,959	1	78,039	18	135,078	31	434,178	100
Mbarali	111,273	55	6,939	3	26,241	13	58,034	29	202,487	100
Mbeya Urban	20,753	37	3,622	6	10,565	19	21,357	38	56,298	100
Total	875,785	49	50,996	3	341,843	19	508,626	29	1,777,252	100

3.15: Number of Heads of Agricultural Households by Main Activity and District , 2007/08 Agricultural Year

District	Crop/Seaweed Farming		Livestock Keeping / Herding		Fishing		Employment		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	46,209	91.4	375	0.7	0	0.0	3,622	7.2	375	0.7	50,580	100
Mbeya (R)	60,151	93.3	159	0.2	0	0.0	1,910	3.0	2,228	3.5	64,448	100
Kyela	41,533	90.9	113	0.2	339	0.7	2,257	4.9	1,467	3.2	45,709	100
Rungwe	77,956	94.3	408	0.5	0	0.0	2,653	3.2	1,633	2.0	82,649	100
Ileje	29,079	91.4	550	1.7	157	0.5	1,572	4.9	472	1.5	31,830	100
Mbozi	109,254	95.1	0	0.0	284	0.2	3,405	3.0	1,986	1.7	114,929	100
Mbarali	49,203	96.3	378	0.7	0	0.0	631	1.2	883	1.7	51,095	100
Mbeya Urban	10,339	76.1	340	2.5	38	0.3	2,566	18.9	302	2.2	13,584	100
Total	423,723	93.2	2,323	0.5	817	0.2	18,615	4.1	9,345	2.1	454,824	100

LAND OWNERSHIP AND LAND USE

4.1: Number of Agricultural Households by Type of Land Ownership/Tenure and District, 2007/08 Agricultural Year

District	Land Access						
	Households with Area Leased/Certificate of Ownership	Households with Area Owned Under Customary Law	Households with Area Bought From Others	Households with Area Rented From Others	Households with Area Borrowed From Others	Households with Area Shared Cropped From Others	Households with Area under Other Forms of Tenure
Chunya	4,746	38,341	4,371	5,620	2,997	125	2,373
Mbeya (R)	318	60,629	8,911	12,730	4,615	1,114	796
Kyela	451	38,711	8,690	8,465	4,966	1,129	339
Rungwe	3,061	73,670	17,550	5,714	3,061	204	2,653
Ileje	1,572	29,551	3,222	1,886	1,179	79	550
Mbozi	4,540	102,727	12,202	19,297	8,797	0	4,257
Mbarali	12,868	28,765	7,191	14,256	5,173	1,388	505
Mbeya Urban	491	9,886	3,434	4,188	528	113	226
Total	28,048	382,280	65,572	72,157	31,316	4,151	11,698

4.2: Area of land (ha) by Ownership/Tenure and District for the 2007/08 Agriculture year

District	Land Ownership/Tenure							Total area
	Area leased / Certificate of Ownership	Area owned under Customary Law	Area Bought	Area rented	Area Borrowed	Area Share - cropped	Area under Other forms of Tenure	
Chunya	12,855	130,203	11,718	6,358	4,702	76	19,853	185,765
Mbeya (R)	258	84,237	7,699	9,058	2,725	386.5515	274	104,638
Kyela	228	48,112	6,941	5,012	2,378	651	525	63,849
Rungwe	3,140	72,994	14,574	2,479	929	41	950	95,107
Ileje	2,068	44,318	2,972	970	445	16	525	51,315
Mbozi	7,500	203,172	11,719	13,701	3,935	.	3,935	243,962
Mbarali	27,850	56,376	11,339	12,361	4,444	2,579	728	115,677
Mbeya Urban	201	7,674	1,963	2,525	210	31	115	12,719
Total	54,100	647,086	68,924	52,465	19,769	3,781	26,905	873,030

4.3: Number of Agriculture Households by whether All Land Available to the Household was used during 2007/08 Agriculture Year and District

District	Was all Land Available to the Hh Used During 2007/08?				
	Yes	%	No	%	Total
Chunya	29,224	58	21,356	42	50,580
Mbeya (R)	50,285	78	14,163	22	64,448
Kyela	36,793	80	8,916	20	45,709
Rungwe	70,609	85	12,040	15	82,649
Ileje	23,342	73	8,488	27	31,830
Mbozi	87,687	76	27,243	24	114,929
Mbarali	38,100	75	12,995	25	51,095
Mbeya Urban	10,867	80	2,717	20	13,584
Total	346,907	76	107,917	24	454,824

4.4: Number of Agriculture Households by Whether they Consider Having Sufficient Land for the Household and District during 2007/08 agriculture year

District	Do you Consider that you have sufficient land for the Hh?				
	Yes	%	No	%	Total
Chunya	24,728	49	25,852	51	50,580
Mbeya (R)	14,322	22	50,126	78	64,448
Kyela	14,559	32	31,150	68	45,709
Rungwe	36,325	44	46,325	56	82,649
Ileje	17,762	56	14,068	44	31,830
Mbozi	37,175	32	77,755	68	114,929
Mbarali	16,527	32	34,568	68	51,095
Mbeya Urban	4,453	33	9,131	67	13,584
Total	165,850	36	288,974	64	454,824

4.5: Number of Agriculture Households By Whether Female Members of the Household Own or Have Customary Right to Land by District during 2007/08 Agriculture Year

District	Do any Female Members of the Hh own or have customary right to Land				
	Yes	%	No	%	Total
Chunya	7,743	15	42,837	85	50,580
Mbeya (R)	20,687	32	43,761	68	64,448
Kyela	15,349	34	30,360	66	45,709
Rungwe	40,406	49	42,243	51	82,649
Ileje	5,973	19	25,857	81	31,830
Mbozi	17,310	15	97,619	85	114,929
Mbarali	13,121	26	37,974	74	51,095
Mbeya Urban	6,226	46	7,358	54	13,584
Total	126,816	28	328,009	72	454,824

4.6: Number of Agriculture Households by Type of Land Use and District for the 2007/08 agriculture year

District	Type of land use												Total number of households
	Households under Temporary Mono Crops	Households under Temporary Mixed Crops	Households under Permanent Mono Crops	Households under Permanent Mixed Crops	Households under Permanent / Annual Mix	Households under Pasture	Households under Fallow	Households under Natural Bush	Households under Planted Trees	Households Rented to Others	Households Unusable	Households of Uncultivated Usable Land	
Chunya	46,833	9,991	999	0	500	375	13,988	3,872	999	2,872	1,873	8,742	91,044
Mbeya (R)	52,354	15,117	11,776	637	318	1,273	10,662	477	6,683	3,501	2,228	4,297	109,323
Kyela	42,774	11,173	11,173	21,218	1,693	564	4,289	451	339	1,693	564	451	96,383
Rungwe	71,630	23,060	34,080	24,081	16,122	4,490	11,632	204	12,857	1,429	2,449	3,673	205,705
Ileje	22,085	11,946	6,445	3,851	1,336	314	5,344	79	3,694	393	393	1,415	57,294
Mbozi	98,470	22,702	42,566	3,689	6,811	2,270	19,864	1,419	1,419	5,108	2,554	6,243	213,116
Mbarali	45,418	9,588	505	252	378	378	6,056	883	126	4,289	757	3,785	72,416
Mbeya Urb	8,528	5,320	113	189	830	113	1,170	75	1,660	604	755	415	19,772
Total	388,091	108,899	107,657	53,916	27,988	9,778	73,004	7,461	27,777	19,889	11,573	29,021	865,053

4.7: Area of Land (ha) by land use and District for the 2007/08 Agriculture Year

District	Land use area												Total area (ha)
	Area under Temporary Mono Crops	Area under Temporary Mixed Crops	Area under Permanent Mono Crops	Area under Permanent Mixed Crops	Area under Permanent / Annual Mix	Area under Pasture	Area under Fallow	Area under Natural Bush	Area under Planted Trees	Area Rented to Others	Area Unusable	Area of Uncultivated Usable Land	
Chunya	93,987	13,197	167	.	339	961	22,652	13,728	238	4,576	2,187	33,735	185,765
Mbeya (R)	61,033	17,337	6,339	306.019959	258	1,388	8,536	403	2,369	2,271	1,353	3,044	104,638
Kyela	35,623	5,444	4,492	9,763	989	477	4,190	411	240	1,748	219	251	63,849
Rungwe	37,398	8,283	13,160	14,073	6,135	806	5,308	83	6,001	1,157	846	1,859	95,107
Ileje	23,444	11,644	3,904	2,625	1,326	141	4,364	32	1,790	239	239	1,567	51,315
Mbozi	124,195	31,024	30,793	3331.78729	4,274	1,407	34,289	1,781	603	4,395	2,757	5,113	243,962
Mbarali	71,150	10,203	243	153.231286	319	2,145	12,642	1,711	51	5,950	2,937	8,172	115,677
Mbeya Urban	7,242	3,313	76	145.12747	396	19	473	8	440	202	137	267	12,719
Total	454,074	100,445	59,173	30,397	14,034	7,345	92,454	18,155	11,732	20,537	10,676	54,009	873,030

CROP OWNERSHIP

5.1: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season - Chunya District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	125	100.0	0	.0	125	100.0	40,963	83.7	7,993	16.3	48,956	100.0
Paddy	0	.0	0	.0	0	.0	2,997	80.0	749	20.0	3,747	100.0
Sorghum	0	.0	0	.0	0	.0	5,370	87.8	749	12.2	6,120	100.0
Bulrush Millet	0	.0	0	.0	0	.0	125	100.0	0	.0	125	100.0
Finger Millet	0	.0	0	.0	0	.0	1,374	64.7	749	35.3	2,123	100.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CEREALS	125	100.0	0	.0	125	100.0	50,830	83.2	10,241	16.8	61,070	100.0
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	0	.0	0	.0	0	.0	1,249	62.5	749	37.5	1,998	100.0
Irish potatoes	0	.0	0	.0	0	.0	125	100.0	0	.0	125	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
ROOTS	0	.0	0	.0	0	.0	1,374	64.7	749	35.3	2,123	100.0
Mung Bean	125	100.0	0	.0	125	100.0	0	.0	0	.0	0	.0
Beans	749	85.7	125	14.3	874	100.0	7,743	71.3	3,122	28.7	10,865	100.0
Cowpeas	0	.0	0	.0	0	.0	749	66.7	375	33.3	1,124	100.0
Green gram	0	.0	0	.0	0	.0	0	.0	125	100.0	125	100.0
Bambaranuts	0	.0	0	.0	0	.0	250	33.3	500	66.7	749	100.0
Field Peas	0	.0	0	.0	0	.0	125	100.0	0	.0	125	100.0
PULSES	874	87.5	125	12.5	999	100.0	8,867	68.3	4,121	31.7	12,988	100.0
Sunflower	0	.0	0	.0	0	.0	8,867	87.7	1,249	12.3	10,116	100.0
Simsim	0	.0	0	.0	0	.0	6,744	91.5	624	8.5	7,368	100.0
Groundnut	0	.0	0	.0	0	.0	10,616	62.5	6,369	37.5	16,985	100.0
Soya Beans	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
OIL SEEDS	0	.0	0	.0	0	.0	26,227	76.1	8,243	23.9	34,469	100.0

Cont..5.1 Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season - Chunya District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	125	100.0	0	.0	125	100.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	125	100.0	0	.0	125	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pumpkins	125	100.0	0	.0	125	100.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS	250	100.0	0	.0	250	100.0	125	100.0	0	.0	125	100.0
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tobacco	0	.0	0	.0	0	.0	4,871	88.6	624	11.4	5,495	100.0
Pyrethrum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	4,871	88.6	624	11.4	5,495	100.0
Total	1,249	90.9	125	9.1	1,374	100.0	92,293	79.4	23,979	20.6	116,271	100.0

5.2: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Rainy Season - Mbeya Rural District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	6,365	67.8	3,023	32.2	9,389	100.0	37,396	68.9	16,868	31.1	54,263	100.0
Paddy	0	.0	0	.0	0	.0	159	100.0	0	.0	159	100.0
Sorghum	0	.0	0	.0	0	.0	796	71.4	318	28.6	1,114	100.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	477	37.5	796	62.5	1,273	100.0	1,432	69.2	637	30.8	2,069	100.0
Wheat	0	.0	0	.0	0	.0	4,774	52.6	4,297	47.4	9,070	100.0
CEREALS	6,843	64.2	3,819	35.8	10,662	100.0	44,557	66.8	22,119	33.2	66,676	100.0
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	0	.0	0	.0	0	.0	1,591	90.9	159	9.1	1,750	100.0
Irish potatoes	477	100.0	0	.0	477	100.0	3,183	62.5	1,910	37.5	5,092	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	159	100.0	0	.0	159	100.0
ROOTS	477	100.0	0	.0	477	100.0	4,933	70.5	2,069	29.5	7,002	100.0
Mung Bean	0	.0	0	.0	0	.0	1,114	58.3	796	41.7	1,910	100.0
Beans	1,750	91.7	159	8.3	1,910	100.0	25,143	68.7	11,457	31.3	36,600	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bambaranuts	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	318	100.0	0	.0	318	100.0	2,069	81.3	477	18.8	2,546	100.0
PULSES	2,069	92.9	159	7.1	2,228	100.0	28,325	69.0	12,730	31.0	41,056	100.0
Sunflower	0	.0	0	.0	0	.0	3,023	79.2	796	20.8	3,819	100.0
Simsim	0	.0	0	.0	0	.0	955	100.0	0	.0	955	100.0
Groundnut	0	.0	0	.0	0	.0	3,978	80.6	955	19.4	4,933	100.0
Soya Beans	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
OIL SEEDS	0	.0	0	.0	0	.0	7,957	82.0	1,750	18.0	9,707	100.0

Cont..5.2: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season - Mbeya Rural District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	1,432	90.0	159	10.0	1,591	100.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	318	100.0	0	.0	318	100.0	159	100.0	0	.0	159	100.0
Tomatoes	0	.0	0	.0	0	.0	1,750	91.7	159	8.3	1,910	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS	318	100.0	0	.0	318	100.0	3,342	91.3	318	8.7	3,660	100.0
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pyrethrum	955	75.0	318	25.0	1,273	100.0	2,546	69.6	1,114	30.4	3,660	100.0
CASH CROPS	955	75.0	318	25.0	1,273	100.0	2,546	69.6	1,114	30.4	3,660	100.0
Total	10,662	71.3	4,297	28.7	14,958	100.0	91,659	69.6	40,101	30.4	131,760	100.0

5.3: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season - Kyela District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	0	.0	0	.0	0	.0	12,302	57.1	9,255	42.9	21,556	100.0
Paddy	0	.0	0	.0	0	.0	28,554	68.0	13,430	32.0	41,984	100.0
Sorghum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	113	100.0	0	.0	113	100.0
CEREALS	0	.0	0	.0	0	.0	40,968	64.4	22,685	35.6	63,653	100.0
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	113	100.0	0	.0	113	100.0
Sweet Potato	0	.0	0	.0	0	.0	790	41.2	1,129	58.8	1,919	100.0
Irish potatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	113	100.0	113	100.0
ROOTS & TUBERS	0	.0	0	.0	0	.0	903	42.1	1,241	57.9	2,144	100.0
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	0	.0	0	.0	0	.0	3,837	70.8	1,580	29.2	5,417	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bambaranuts	0	.0	0	.0	0	.0	564	35.7	1,016	64.3	1,580	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
PULSES	0	.0	0	.0	0	.0	4,402	62.9	2,596	37.1	6,997	100.0
Sunflower	0	.0	0	.0	0	.0	113	100.0	0	.0	113	100.0
Simsim	0	.0	0	.0	0	.0	113	50.0	113	50.0	226	100.0
Groundnut	0	.0	0	.0	0	.0	4,627	53.2	4,063	46.8	8,690	100.0
Soya Beans	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
OIL SEEDS & OIL NUTS	0	.0	0	.0	0	.0	4,853	53.8	4,176	46.3	9,029	100.0

Cont..5.3 : Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season - Kyela District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	113	50.0	113	50.0	226	100.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	226	100.0	0	.0	226	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	113	100.0	0	.0	113	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	0	.0	0	.0	0	.0	451	80.0	113	20.0	564	100.0
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pyrethrum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Total	0	.0	0	.0	0	.0	51,577	62.6	30,811	37.4	82,388	100.0

5.4: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season - Rungwe District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	44,692	60.0	29,795	40.0	74,487	100.0	1,837	56.3	1,429	43.8	3,265	100.0
Paddy	2,449	75.0	816	25.0	3,265	100.0	3,877	67.9	1,837	32.1	5,714	100.0
Sorghum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	0	.0	0	.0	0	.0	204	100.0	0	.0	204	100.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CEREALS	47,141	60.6	30,611	39.4	77,752	100.0	5,918	64.4	3,265	35.6	9,183	100.0
Yam	0	.0	0	.0	0	.0	0	.0	204	100.0	204	100.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	204	25.0	612	75.0	816	100.0	408	25.0	1,224	75.0	1,633	100.0
Irish potatoes	408	66.7	204	33.3	612	100.0	816	100.0	0	.0	816	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	2,857	82.4	612	17.6	3,469	100.0	2,449	57.1	1,837	42.9	4,286	100.0
ROOTS & TUBERS	3,469	70.8	1,429	29.2	4,898	100.0	3,673	52.9	3,265	47.1	6,938	100.0
Mung Bean	204	100.0	0	.0	204	100.0	0	.0	0	.0	0	.0
Beans	1,020	50.0	1,020	50.0	2,041	100.0	32,652	48.8	34,284	51.2	66,936	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bambaranuts	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
PULSES	1,224	54.5	1,020	45.5	2,245	100.0	32,652	48.8	34,284	51.2	66,936	100.0
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	4,694	38.3	7,551	61.7	12,244	100.0	408	33.3	816	66.7	1,224	100.0
Soya Beans	0	.0	0	.0	0	.0	0	.0	204	100.0	204	100.0
OIL SEEDS & OIL NUTS	4,694	38.3	7,551	61.7	12,244	100.0	408	28.6	1,020	71.4	1,429	100.0

Cont..5.4: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Rainy Season - Rungwe District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	408	100.0	0	.0	408	100.0	408	100.0	0	.0	408	100.0
Spinach	0	.0	0	.0	0	.0	204	50.0	204	50.0	408	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	612	60.0	408	40.0	1,020	100.0	0	.0	204	100.0	204	100.0
Pumpkins	0	.0	0	.0	0	.0	408	100.0	0	.0	408	100.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	1,020	71.4	408	28.6	1,429	100.0	1,020	71.4	408	28.6	1,429	100.0
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tobacco	0	.0	0	.0	0	.0	0	.0	204	100.0	204	100.0
Pyrethrum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	204	100.0	204	100.0
Total	57,549	58.4	41,019	41.6	98,567	100.0	43,672	50.7	42,447	49.3	86,119	100.0

5.5: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Rainy Seasons - Ileje District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	5,030	74.4	1,729	25.6	6,759	100.0	18,626	74.3	6,445	25.7	25,071	100.0
Paddy	0	.0	0	.0	0	.0	1,572	66.7	786	33.3	2,358	100.0
Sorghum	0	.0	0	.0	0	.0	79	100.0	0	.0	79	100.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	236	100.0	0	.0	236	100.0	2,672	73.9	943	26.1	3,615	100.0
Wheat	0	.0	0	.0	0	.0	472	66.7	236	33.3	707	100.0
CEREALS	5,266	75.3	1,729	24.7	6,995	100.0	23,421	73.6	8,409	26.4	31,830	100.0
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	79	33.3	157	66.7	236	100.0
Sweet Potato	1,100	82.4	236	17.6	1,336	100.0	1,808	42.6	2,436	57.4	4,244	100.0
Irish potatoes	0	.0	0	.0	0	.0	79	50.0	79	50.0	157	100.0
Yams	0	.0	0	.0	0	.0	79	100.0	0	.0	79	100.0
Coco Yam	79	50.0	79	50.0	157	100.0	943	80.0	236	20.0	1,179	100.0
ROOTS	1,179	78.9	314	21.1	1,493	100.0	2,987	50.7	2,908	49.3	5,894	100.0
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	2,672	61.8	1,650	38.2	4,323	100.0	13,204	60.6	8,567	39.4	21,770	100.0
Cowpeas	0	.0	0	.0	0	.0	157	100.0	0	.0	157	100.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bambaranuts	0	.0	0	.0	0	.0	629	61.5	393	38.5	1,022	100.0
Field Peas	0	.0	0	.0	0	.0	629	53.3	550	46.7	1,179	100.0
PULSES	2,672	61.8	1,650	38.2	4,323	100.0	14,618	60.6	9,510	39.4	24,128	100.0
Sunflower	0	.0	0	.0	0	.0	1,572	80.0	393	20.0	1,965	100.0
Simsim	0	.0	0	.0	0	.0	79	100.0	0	.0	79	100.0
Groundnut	157	66.7	79	33.3	236	100.0	4,873	57.4	3,615	42.6	8,488	100.0
Soya Beans	0	.0	0	.0	0	.0	79	50.0	79	50.0	157	100.0
OIL SEEDS	157	66.7	79	33.3	236	100.0	6,602	61.8	4,087	38.2	10,689	100.0

Cont..5.5: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Rainy Season - Ileje District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	157	100.0	0	.0	157	100.0	707	90.0	79	10.0	786	100.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	314	100.0	0	.0	314	100.0	0	.0	0	.0	0	.0
Tomatoes	314	80.0	79	20.0	393	100.0	157	100.0	0	.0	157	100.0
Spinach	314	100.0	0	.0	314	100.0	79	100.0	0	.0	79	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	79	100.0	0	.0	79	100.0	0	.0	0	.0	0	.0
Pumpkins	0	.0	314	100.0	314	100.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS	1,179	75.0	393	25.0	1,572	100.0	943	92.3	79	7.7	1,022	100.0
Cotton	0	.0	0	.0	0	.0	79	100.0	0	.0	79	100.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pyrethrum	0	.0	0	.0	0	.0	550	70.0	236	30.0	786	100.0
CASH CROPS	0	.0	0	.0	0	.0	629	72.7	236	27.3	865	100.0
Total	10,453	71.5	4,165	28.5	14,618	100.0	49,199	66.1	25,228	33.9	74,427	100.0

5.6: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the Agriculture Year 2007/08 Short and Long Rainy Season - Mbozi District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	0	.0	0	.0	0	.0	72,363	70.2	30,648	29.8	103,011	100.0
Paddy	0	.0	0	.0	0	.0	7,094	92.6	568	7.4	7,662	100.0
Sorghum	0	.0	0	.0	0	.0	9,932	63.6	5,676	36.4	15,608	100.0
Bulrush Millet	0	.0	0	.0	0	.0	2,554	100.0	0	.0	2,554	100.0
Finger Millet	0	.0	0	.0	0	.0	5,108	47.4	5,676	52.6	10,784	100.0
Wheat	0	.0	0	.0	0	.0	0	.0	284	100.0	284	100.0
CEREALS	0	.0	0	.0	0	.0	97,052	69.4	42,850	30.6	139,902	100.0
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	284	100.0	0	.0	284	100.0
Sweet Potato	0	.0	0	.0	0	.0	2,554	75.0	851	25.0	3,405	100.0
Irish potatoes	0	.0	0	.0	0	.0	1,986	77.8	568	22.2	2,554	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	284	100.0	0	.0	284	100.0
ROOTS	0	.0	0	.0	0	.0	5,108	78.3	1,419	21.7	6,527	100.0
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	0	.0	0	.0	0	.0	40,864	48.5	43,418	51.5	84,282	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	284	100.0	284	100.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bambaranuts	0	.0	0	.0	0	.0	0	.0	568	100.0	568	100.0
Field Peas	0	.0	0	.0	0	.0	1,419	33.3	2,838	66.7	4,257	100.0
PULSES	0	.0	0	.0	0	.0	42,283	47.3	47,107	52.7	89,390	100.0
Sunflower	0	.0	0	.0	0	.0	10,216	70.6	4,257	29.4	14,473	100.0
Simsim	0	.0	0	.0	0	.0	6,243	81.5	1,419	18.5	7,662	100.0
Groundnut	0	.0	0	.0	0	.0	18,445	40.4	27,243	59.6	45,688	100.0
Soya Beans	0	.0	0	.0	0	.0	284	50.0	284	50.0	568	100.0
OIL SEEDS & OIL NUTS	0	.0	0	.0	0	.0	35,188	51.5	33,202	48.5	68,390	100.0

Cont..5.6: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Rainy Season - Mbozi District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	568	100.0	0	.0	568	100.0
Ginger	0	.0	0	.0	0	.0	284	100.0	0	.0	284	100.0
Cabbage	0	.0	0	.0	0	.0	851	100.0	0	.0	851	100.0
Tomatoes	0	.0	0	.0	0	.0	2,838	83.3	568	16.7	3,405	100.0
Spinach	0	.0	0	.0	0	.0	568	100.0	0	.0	568	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	0	.0	284	100.0	284	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS	0	.0	0	.0	0	.0	5,108	85.7	851	14.3	5,959	100.0
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tobacco	0	.0	0	.0	0	.0	0	.0	284	100.0	284	100.0
Pyrethrum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	284	100.0	284	100.0
Total	0	.0	0	.0	0	.0	184,738	59.5	125,713	40.5	310,451	100.0

5.7: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the Agriculture Year 2007/08 Short and Long Rainy Season - Mbarali District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	0	.0	0	.0	0	.0	29,143	69.0	13,121	31.0	42,264	100.0
Paddy	0	.0	0	.0	0	.0	28,008	74.5	9,588	25.5	37,596	100.0
Sorghum	0	.0	0	.0	0	.0	1,262	90.9	126	9.1	1,388	100.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	126	100.0	0	.0	126	100.0
CEREALS	0	.0	0	.0	0	.0	58,538	71.9	22,835	28.1	81,373	100.0
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	252	100.0	0	.0	252	100.0
Sweet Potato	0	.0	0	.0	0	.0	1,262	71.4	505	28.6	1,766	100.0
Irish potatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
ROOTS	0	.0	0	.0	0	.0	1,514	75.0	505	25.0	2,019	100.0
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	126	100.0	0	.0	126	100.0	1,766	66.7	883	33.3	2,649	100.0
Cowpeas	0	.0	0	.0	0	.0	252	100.0	0	.0	252	100.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bambaranuts	0	.0	0	.0	0	.0	252	100.0	0	.0	252	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
PULSES	126	100.0	0	.0	126	100.0	2,271	72.0	883	28.0	3,154	100.0
Sunflower	0	.0	0	.0	0	.0	1,640	61.9	1,009	38.1	2,649	100.0
Simsim	0	.0	0	.0	0	.0	126	100.0	0	.0	126	100.0
Groundnut	0	.0	0	.0	0	.0	4,416	74.5	1,514	25.5	5,930	100.0
Soya Beans	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
OIL SEEDS	0	.0	0	.0	0	.0	6,182	71.0	2,523	29.0	8,705	100.0

Cont..5.7 : Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Rainy Season - Mbarali District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	378	100.0	0	.0	378	100.0
Onion	0	.0	0	.0	0	.0	126	100.0	0	.0	126	100.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	126	100.0	0	.0	126	100.0	505	80.0	126	20.0	631	100.0
Spinach	0	.0	0	.0	0	.0	126	100.0	0	.0	126	100.0
Carrot	0	.0	0	.0	0	.0	126	100.0	0	.0	126	100.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	126	100.0	0	.0	126	100.0
FRUITS	126	100.0	0	.0	126	100.0	1,388	91.7	126	8.3	1,514	100.0
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pyrethrum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Total	252	100.0	0	.0	252	100.0	69,893	72.2	26,872	27.8	96,765	100.0

5.8: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Rainy Season - Mbeya Urban District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	0	.0	0	.0	0	.0	9,282	75.9	2,943	24.1	12,226	100.0
Paddy	0	.0	0	.0	0	.0	38	100.0	0	.0	38	100.0
Sorghum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	1,057	57.1	792	42.9	1,849	100.0
CEREALS	0	.0	0	.0	0	.0	10,377	73.5	3,736	26.5	14,112	100.0
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	0	.0	38	100.0	38	100.0
Sweet Potato	0	.0	0	.0	0	.0	75	100.0	0	.0	75	100.0
Irish potatoes	0	.0	0	.0	0	.0	1,811	77.4	528	22.6	2,339	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
ROOTS	0	.0	0	.0	0	.0	1,887	76.9	566	23.1	2,453	100.0
Mung Bean	38	100.0	0	.0	38	100.0	0	.0	38	100.0	38	100.0
Beans	0	.0	0	.0	0	.0	4,717	64.4	2,604	35.6	7,320	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bambaranuts	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	830	66.7	415	33.3	1,245	100.0
PULSES	38	100.0	0	.0	38	100.0	5,547	64.5	3,056	35.5	8,603	100.0
Sunflower	0	.0	0	.0	0	.0	264	100.0	0	.0	264	100.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Soya Beans	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
OIL SEEDS	0	.0	0	.0	0	.0	264	100.0	0	.0	264	100.0

Cont..5.8: Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and

Long Rainy Season Mbeya Urban District

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	38	100.0	38	100.0
Onion	0	.0	0	.0	0	.0	189	100.0	0	.0	189	100.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	226	100.0	0	.0	226	100.0
Tomatoes	0	.0	0	.0	0	.0	566	100.0	0	.0	566	100.0
Spinach	0	.0	0	.0	0	.0	264	77.8	75	22.2	340	100.0
Carrot	0	.0	0	.0	0	.0	302	100.0	0	.0	302	100.0
Chillies	0	.0	0	.0	0	.0	38	100.0	0	.0	38	100.0
Amaranths	0	.0	0	.0	0	.0	340	90.0	38	10.0	377	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS	0	.0	0	.0	0	.0	1,924	92.7	151	7.3	2,075	100.0
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pyrethrum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Total	38	100.0	0	.0	38	100.0	19,999	72.7	7,509	27.3	27,507	100.0

5.9: Number of Household Members Owning Most of the Crop by Sex of the Main Owner, Season and District for the Agriculture Year 2007/08

District	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	874	87.5	125	12.5	999	100.0	42,462	77.3	12,489	22.7	54,951	100.0
Mbeya (R)	6,365	66.7	3,183	33.3	9,548	100.0	41,851	67.3	20,369	32.7	62,220	100.0
Kyela	0	.0	0	.0	0	.0	29,118	62.6	17,381	37.4	46,499	100.0
Rungwe	48,161	58.3	34,488	41.7	82,649	100.0	38,162	51.4	36,121	48.6	74,283	100.0
Ileje	5,973	65.5	3,144	34.5	9,117	100.0	20,827	65.8	10,846	34.2	31,673	100.0
Mbozi	0	.0	0	.0	0	.0	84,565	59.7	57,039	40.3	141,604	100.0
Mbarali	126	100.0	0	.0	126	100.0	35,830	68.4	16,527	31.6	52,357	100.0
Mbeya Urban	38	100.0	0	.0	38	100.0	10,112	71.5	4,037	28.5	14,150	100.0

5.10: Planted Area by District, Season and Sex of Household Members Owning Most of the Crop for the Agriculture Year 2007/08

District	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%
Chunya	784	87.5	25,281	12.5	809	100.0	89,784	77.3	14,927	22.7	104,711	100.0
Mbeya (R)	6,137	66.7	1,835	33.3	7,971	100.0	53,463	67.3	16,658	32.7	70,122	100.0
Kyela	.	.0	.	.0	.	.0	29,676	62.6	10,314	37.4	39,990	100.0
Rungwe	22,243	58.3	13,960	41.7	36,204	100.0	13,690	51.4	10,581	48.6	24,271	100.0
Ileje	5,770	65.5	1,705	34.5	7,475	100.0	21,522	65.8	7,758	34.2	29,280	100.0
Mbozi	.	.0	.	.0	.	.0	111,746	59.7	44,158	40.3	155,904	100.0
Mbarali	102	100.0	.	.0	102	100.0	65,755	68.4	14,927	31.6	80,682	100.0
Mbeya Urban	11	100.0	.	.0	11	100.0	8,260	71.5	2,591	28.5	10,850	100.0
Total	35,047	60.1	17,526	39.9	52,573	100.0	393,896	63.41	121,914	36.59	515,810	100.0

CROP PRODUCTION BY DISTRICT-SHORT RAINY SEASON

5.11: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Maize				Paddy				Sorghum				Bulrush Millet			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	125	30	88.67	2.92	0	.	.	.	0	.	.	.	0	.	.	.
Mbeya (R)	9,389	6416.755	8294.671	1.29	0	.	.	.	0	.	.	.	0	.	.	.
Kyela	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Rungwe	74,487	30,377	41,781.87	1.38	3,265	1,262	561.20	0.44	0	.	.	.	0	.	.	.
Ileje	6,759	4,966	6,378.19	1.28	0	.	.	.	0	.	.	.	0	.	.	.
Mbozi	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mbarali	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mbeya Urb	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Total	90,759	41,790	56,543.41	1.35	3,265	1,262	561.20	0.44	0	.	.	.	0	.	.	.

Cont 5.11: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short Rainy SEASON Agricultural Year 2007/08

District	Finger Millet				Wheat				Barley				Yam			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.	0	.	.	.					0	.	.	.
Mbeya (R)	1,273	121.1195	121.4165	1.0025	0	.	.	.					0	.	.	.
Kyela	0	.	.	.	0	.	.	.					0	.	.	.
Rungwe	0	.	.	.	0	.	.	.					0	.	.	.
Ileje	236	222.7325	408.6823	1.8349	0	.	.	.					0	.	.	.
Mbozi	0	.	.	.	0	.	.	.					0	.	.	.
Mbarali	0	.	.	.	0	.	.	.					0	.	.	.
Mbeya Urban	0	.	.	.	0	.	.	.					0	.	.	.
Total	1,509	343.852	530.0988	1.5416	0	.	.	.					0	.	.	.

Cont 5.11: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short Rainy SEASON Agricultural Year 2007/08

District	Cassava				Sweet Potato				Irish potatoes				Yams			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mbeya (R)	0	.	.	.	0	.	.	.	477	128.8505	446.8381	3.4679	0	.	.	.
Kyela	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Rungwe	0	.	.	.	816	99	120.40	1.21	612	227.2066	971.3866	4.2753	0	.	.	.
Ileje	0	.	.	.	1,336	389.7819	772.4096	1.98	0	.	.	.	0	.	.	.
Mbozi	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mbarali	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mbeya Ur	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Total	0	.	.	.	2,152	489	892.81	1.83	1,090	356.0571	1418.225	3.9831	0	.	.	.

Cont 5.11: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short Rainy SEASON Agricultural Year 2007/08

District	Coco Yam				Mung Bean				Beans				Cowpeas			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.					874	753.3756	1309.081	1.74	0	.	.	.
Mbeya (R)	0	.	.	.					1,910	547.6147	351.6781	0.64	0	.	.	.
Kyela	0	.	.	.					0	.	.	.	0	.	.	.
Rungwe	3,469	358.5733	284.2734	0.7928					2,041	610	399.98	0.66	0	.	.	.
Ileje	157	31.81893	9.745501	0.3063					4,323	1,613	570.98	0.35	0	.	.	.
Mbozi	0	.	.	.					0	.	.	.	0	.	.	.
Mbarali	0	.	.	.					126	51.0771	113.5444	2.22	0	.	.	.
Mbeya Ur	0	.	.	.					0	.	.	.	0	.	.	.
Total	3,626	390.3922	294.0189	0.7531					9,273	3,575	2,745.26	0.77	0	.	.	.

Cont 5.11: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short Rainy SEASON Agricultural Year 2007/08

District	Green gram				Chick peas				Bambaranuts				Field Peas			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.					0	.	.	.	0	.	.	.
Mbeya (R)	0	.	.	.					0	.	.	.	318	80.53157	28.64347	0.3557
Kyela	0	.	.	.					0	.	.	.	0	.	.	.
Rungwe	0	.	.	.					0	.	.	.	0	.	.	.
Ileje	0	.	.	.					0	.	.	.	0	.	.	.
Mbozi	0	.	.	.					0	.	.	.	0	.	.	.
Mbarali	0	.	.	.					0	.	.	.	0	.	.	.
Mbeya Urban	0	.	.	.					0	.	.	.	0	.	.	.
Total	0	.	.	.					0	.	.	.	318	80.53157	28.64347	0.3557

Cont 5.11: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short Rainy SEASON Agricultural Year 2007/08

District	Sunflower				Simsim				Groundnut				Soya Beans			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mbeya (R)	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Kyela	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Rungwe	0	.	.	.	0	.	.	.	12,244	3,001	1,311.78	0.44	0	.	.	.
Ileje	0	.	.	.	0	.	.	.	236	127	36.15	0.28	0	.	.	.
Mbozi	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mbarali	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mbeya Urb	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Total	0	.	.	.	0	.	.	.	12,480	3,128	1,347.93	0.43	0	.	.	.

Cont 5.11: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short Rainy SEASON Agricultural Year 2007/08

District	Castor Fung				Okra				Radish				Turmeric			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya					125	15.16864	3.746653	0.25								
Mbeya (R)					0	.	.	.								
Kyela					0	.	.	.								
Rungwe					0	.	.	.								
Ileje					0	.	.	.								
Mbozi					0	.	.	.								
Mbarali					0	.	.	.								
Mbeya Urb					0	.	.	.								
Total					125	15	3.75	0.25								

Cont 5.11: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short Rainy SEASON Agricultural Year 2007/08

District	Bitter Aubergine				Kothmir				Onion				Ginger			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya									0	.	.	.	0	.	.	.
Mbeya (R)									0	.	.	.	0	.	.	.
Kyela									0	.	.	.	0	.	.	.
Rungwe									0	.	.	.	0	.	.	.
Ileje									157	32.7735	225.0896	6.87	0	.	.	.
Mbozi									0	.	.	.	0	.	.	.
Mbarali									0	.	.	.	0	.	.	.
Mbeya Ur									0	.	.	.	0	.	.	.
Total									157	33	225.09	6.87	0	.	.	.

Cont 5.11: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short Rainy SEASON Agricultural Year 2007/08																
District	Zukkin				Star Fruit				Cabbage				Tomatoes			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya									0	.	.	.	0	.	.	.
Mbeya (R)									318	128.8505	493.3042	3.8285	0	.	.	.
Kyela									0	.	.	.	0	.	.	.
Rungwe									0	.	.	.	408	41.31029	304.0685	7.36
Ileje									314	15.59127	34.58081	2.218	393	45.81926	275.8606	6.02
Mbozi									0	.	.	.	0	.	.	.
Mbarali									0	.	.	.	126	51.0771	2144.727	41.99
Mbeya Ur									0	.	.	.	0	.	.	.
Total									633	144.4418	527.885	3.6547	927	138	2,724.66	19.71

Cont 5.11: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short Rainy SEASON Agricultural Year 2007/08

District	Spinach				Carrot				Chillies				Amaranths			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mbeya (R)	0	.	.	.	0	.	.	.	0	.	.	.				
Kyela	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Rungwe	0	.	.	.	0	.	.	.	0	.	.	.	1,020	62.79164	8.162913	0.13
Ileje	314	16.86403	69.16162	4.10	0	.	.	.	0	.	.	.	79	2.863704	6.130235	2.1407
Mbozi	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mbarali	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mbeya Ur	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Total	314	17	69.16	4.10	0	.	.	.	0	.	.	.	1,099	65.65534	14.29315	0.2177

Cont 5.11: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short Rainy SEASON Agricultural Year 2007/08

District	Pumpkins				Cucumber				Egg Plant				Water Mellon			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	125	5	2	0									0	.	.	.
Mbeya (R)																
Kyela	0	.	.	.									0	.	.	.
Rungwe	0	.	.	.									0	.	.	.
Ileje	314	11	15	1									0	.	.	.
Mbozi	0	.	.	.									0	.	.	.
Mbarali	0	.	.	.									0	.	.	.
Mbeya Urban	0	.	.	.									0	.	.	.
Total	439	16	16.81	1.04									0	.	.	.

Cont 5.11: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short Rainy SEASON Agricultural Year 2007/08

District	Pumpkins				Cucumber				Egg Plant				Water Mellon			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	5	1.873327	0.3705	0	0	.	.	.	0	.	.	.	0	.	.	.
Mbeya (R)					0	.	.	.	0	.	.	.	0	.	.	.
Kyela00	0	.	.	.	0	.	.	.	0	.	.	.
Rungwe00	0	.	.	.	0	.	.	.	0	.	.	.
Ileje	11	15	1.34	.00	0	.	.	.	0	.	.	.	0	.	.	.
Mbozi00	0				0				0			
Mbarali00	0				0				0			
Mbeya Urban	.	.	.	0	0				0				0			
Total	16	16.80595	1.037863	0	0	0	0	0	0	0	0	0	0	0	0	0

Cont 5.11: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short Rainy SEASON Agricultural Year 2007/08

District	Cotton				Tobacco				Pyrethrum				Jute			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.	0	.	.	.	0	.	.	.				
Mbeya (R)	0	.	.	.	0	.	.	.	1,273	547.6147	286.4347	0.5231				
Kyela																
Rungwe	0	.	.	.	0	.	.	.	0	.	.	.				
Ileje	0	.	.	.	0	.	.	.	0	.	.	.				
Mbozi	0	.	.	.	0	.	.	.	0	.	.	.				
Mbarali																
Mbeya Ur																
Total	0	.	.	.	0	.	.	.	1,273	547.6147	286.4347	0.5231				

CROP PRODUCTION BY DISTRICT-LONG RAINY SEASON

5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Maize				Paddy				Sorghum				Bulrush Millet			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	48,956	56,541	91,761.40	1.62	3,747	2,794	4,419.55	1.58	6,120	6,644	5,862.51	0.88	125	50,562.12	6,244.422	0.12
Mbeya (R)	54,263	38,407	82,301.91	2.14	159	129	47.74	0.37	1,114	1,578	2,685.33	1.70	0	.	.	.
Kyela	21,556	6,022	8,918.94	1.48	41,984	30,632	47,456.50	1.55	0	.	.	.	0	.	.	.
Rungwe	3,265	892	742.62	0.83	5,714	2,607	2,323.98	0.89	0	.	.	.	0	.	.	.
Ileje	25,071	16,422	26,316.47	1.60	2,358	578	1,143.37	1.98	79	19	62.87	3.29	0	.	.	.
Mbozi	103,011	73,970	159,968.4	2.16	7,662	4,596	11,106.44	2.42	15,608	8,008	9,895.57	1.24	2,554	1,494	831.18	0.56
Mbarali	42,264	31,109	54,396.34	1.75	37,596	38,668	96,993.78	2.51	1,388	3,397	2,973.22	0.88	0	.	.	.
Mbeya	12,226	6,249	13,860.21	2.22	38	4	12.26	3.21	0	.	.	.	0	.	.	.
Total	310,612	229,612	438,266.3	1.91	99,257	80,006	163,503.62	2.04	24,308	19,646	21,479.50	1.09	2,679	1,544	837.43	0.54

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Finger Millet				Cassava				Sweet Potato				Irish potatoes			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	2,123	961	658	0.7	874	234	406.	1.7	1,998	1,656	2,834	2	125	51	10	0
Mbeya (R)	2,069	763	458	0.6	0	.	.	.	1,750	653	1,271	2	5,092	2,577	9,582	4
Kyela	0	.	.	.	6,659	2,088	8,094	3.9	1,919	276	585	2	0	.	.	.
Rungwe	204	124	20	0.2	5,102	1,517	2,288.	1.5	1,633	312	346	1	816	248	220	1
Ileje	3,615	1,367	617	0.5	3,379	945	1,371	1.5	4,244	659	594	1	157	24	19	1
Mbozi	10,784	4,050	2,093	0.5	7,662	4,426	818	0.2	3,405	632	1,453	2	2,554	574	2,525	4
Mbarali	0	.	.	.	252	64	141	2.2	1,766	613	1,874	3	0	.	.	.
Mbeya Urban	0	.	.	.	38	1	1	1	75	31	60	2	2,339	954	4,611	5
Total	18,795	7,265	3,846	1	922	559	463	1	16,791	4,831	9,016	2	11,084	4,428	16,967	4

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Coco Yam				Mung Bean				Beans				Cowpeas			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.	0	.	.	.	10,865	4,029	1,879	0	1,124	379	335	1
Mbeya (R)	159	16	29	2	1,910	564	400	1	36,600	12,669	9,069	1	0	.	.	.
Kyela	113	9	16	2	0	.	.	.	5,417	1,112	1,102	1	0	.	.	.
Rungwe	4,286	532	789	1	0	.	.	.	66,936	18,866	6,656	0	0	.	.	.
Ileje	1,179	189	194	1	0	.	.	.	21,770	5,902	2,800	0	157	32	7	0
Mbozi	284	17	31	2	0	.	.	.	84,282	37,483	30,945	1	284	29	0	0
Mbarali	0	.	.	.	0	.	.	.	2,649	707	971	1	252	38	23	1
Mbeya U	0	.	.	.	38	8	5	1	7,320	1,983	2,113	1	0	.	.	.
Total	6,020	764	1,060	1	1,947	571	405	1	235,840	82,752	55,535	1	1,817	478	364	1

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Green gram				Okra				Bambaranuts				Field Peas			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	125	13	5.00	0.40	0	.	.	.	749	253	204	1	125	13	0	0
Mbeya (R)	0	.	.	.	0	.	.	.	0	.	.	.	2,546	693	362	1
Kyela	0	.	.	.	226	34	22.57	0.66	1,580	222	398	2	0	.	.	.
Rungwe	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Ileje	0	.	.	.	0	.	.	.	1,022	98	36	0	1,179	302	122	0
Mbozi	0	.	.	.	0	.	.	.	568	86	28	0	4,257	919	675	1
Mbarali	0	.	.	.	378	179	346.94	1.94	252	179	290	2	0	.	.	.
Mbeya U	0	.	.	.	38	8	7.55	0.99	0	.	.	.	1,245	350	199	1
Total	125	13	5.00	0.40	642	221	377.06	1.71	4,171	837	956	1	9,352	2,277	1,358	1

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Sunflower				Simsim				Groundnut				Soya Beans			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	10,116	5,486	3,969	1	7,368	11,690	5,631	0	16,985	7,971	5,903	1	0	.	.	.
Mbeya (R)	3,819	2,770	2,635	1	955	1,675	1,072	1	4,933	1,876	1,520	1	0	.	.	.
Kyela	113	23	9	0	226	78	57	1	8,690	1,492	2,053	1				
Rungwe	0	.	.	.	0	.	.	.	1,224	257	57	0	204	50	6	0
Ileje	1,965	482	324	1	79	16	2	0	8,488	2,339	965	0	157	24	9	0
Mbozi	14,473	4,412	2,203	0	7,662	4,739	3,011	1	45,688	12,942	6,293	0	568	86	23	0
Mbarali	2,649	1,721	928	1	126	255	69	0	5,930	3,407	2,757	1				
Mbeya U	264	68	63	1	0	.	.	.	0	.	.	.				
Total	33,399	14,963	10,131	1	16,416	18,453	9,842	1	91,938	30,284	19,549	1	929	160	37	0

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Cabbage				Tomato				Onion				Ginger			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.	125	51	30	1	0	.	.	.	0	.	.	.
Mbeya (R)	159	16	159	10	1,910	403	5,919	15	1,591	470	560	1	0	.	.	.
Kyela	0	.	.	.	226	34	109	3	0	.	.	.	0	.	.	.
Rungwe	0	.	.	.	408	165	1,533	9	0	.	.	.	0	.	.	.
Ileje	0	.	.	.	157	24	29	1	786	162	256	2	0	.	.	.
Mbozi	851	172	369	2	3,405	747	5,986	8	568	172	169	1	284	57	459	8
Mbarali	0	.	.	.	631	102	1,328	13	126	13	89	7	0	.	.	.
Mbeya u	226	50	675	14	566	122	1,532	13	189	57	157	3	0	.	.	.
Total	1,237	238	1,203	5	7,428	1,648	16,466	10	3,260	874	1,231	1	284	57	459	8

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Spinach				Carrot				Chillies				Amaranths			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mbeya (R)	0	.	.	.	0	.	.	.	0	.	.	.				
Kyela	0	.	.	.	0	.	.	.	0	.	.	.	113	6	41	7
Rungwe	408	29	378	13	0	.	.	.	0	.	.	.	204	7	71	11
Ileje	79	8	49	6	0	.	.	.	0	.	.	.	0	.	.	.
Mbozi	568	86	46	1	0	.	.	.	0	.	.	.	284	29	3	0
Mbarali	126	38	252	7	126	13	13	1	0	.	.	.	0	.	.	.
Mbeya U	340	48	357	7	302	65	779	12	38	7	26	4	377	63	632	10
Total	1,520	209	1,082	5	428	78	792	10	38	7	26	4	978	104	747	7

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Pumpkins				Cucumber				Egg Plant				Water Mellon			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.	0	.	.	.					0	.	.	.
Mbeya (R)																
Kyela	0	.	.	.	0	.	.	.					0	.	.	.
Rungwe	408	17	8.16	0.49	0	.	.	.					0	.	.	.
Ileje	0	.	.	.	0	.	.	.					0	.	.	.
Mbozi	0	.	.	.	0	.	.	.					0	.	.	.
Mbarali	0	.	.	.	126	26	504.64	19.76					126	26	505	20
Mbeya U	0	.	.	.	0	.	.	.					0	.	.	.
Total	408	17	8.16	0.49	126	26	504.64	19.76					126	26	505	20

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Cotton				Tobacco				Pyrethrum				Wheat			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.	5,495	6,131	6,610	1	0	.	.	.	0	.	.	.
Mbeya (R)	0	.	.	.	0	.	.	.	3,660	741	302	0	9,070	4,122	2,845	1
Kyela													113	46	45	1
Rungwe	0	.	.	.	204	83	31	0	0	.	.	.	0	.	.	.
Ileje	79	16	2	0	0	.	.	.	786	286	100	0	707	286	126	0
Mbozi	0	.	.	.	284	115	6	0	0	.	.	.	284	29	10	0
Mbarali													126	153	252	2
Mbeya U													1,849	784	875	1
Total	79	16	2	0	5,983	6,328	6,646	1	4,446	1,027	402	0	12,149	5,419	4,153	1

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Maize				Paddy				Sorghum				Bulrush Millet			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	49,081	56,571	91,850	2	3,747	2,794	4,420	2	6,120	6,644	5,863	1	125	51	6	0
Mbeya Rural	63,652	44,824	90,597	2	159	129	48	0	1,114	1,578	2,685	2	0	.	.	.
Kyela	21,556	6,022	8,919	1	41,984	30,632	47,457	2	0	.	.	.	0	.	.	.
Rungw	77,752	31,269	42,524	1	8,979	3,868	2,885	1	0	.	.	.	0	.	.	.
Ileje	31,830	21,387	32,695	2	2,358	578	1,143	2	79	19	63	3	0	.	.	.
Mbozi	103,011	73,970	159,968	2	7,662	4,596	11,106	2	15,608	8,008	9,896	1	2,554	1,494	831	1
Mbara	42,264	31,109	54,396	2	37,596	38,668	96,994	3	1,388	3,397	2,973	1	0	.	.	.
Mbeya Urban	12,226	6,249	13,860	2	38	4	12	3	0	.	.	.	0	.	.	.
Total	401,372	271,402	494,810	2	102,522	81,267	164,065	2	24,308	19,646	21,480	1	2,679	1,544	837	1

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Finger Millet				Wheat				Barley				Seaweed			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	2,123	961	658.04	0.68	0	.	.	.								
Mbeya (R)	3,342	884.5587	579.235	0.65	9,070	4,122	2,845	0.69								
Kyela	0	.	.	.	113	46	45	1								
Rungwe	204	123.9309	20.4073	0.16	0	.	.	.								
Ileje	3,851	1,589	1,025.32	0.65	707	286	126	0.44								
Mbozi	10,784	4,050	2,093.13	0.52	284	29	10	0.36								
Mbarali	0	.	.	.	126	153	252	2								
Mbeya U	0	.	.	.	1,849	784	875	1								
Total	20,303	7,608	4,376.13	0.58	12,149	5,419	4,153	1								

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Coco Yam				Mung Bean				Beans				Cowpeas			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.	125	5	2	0.44	11,740	4,783	3,188.40	0.67	1,124	379	334.58	0.88
Mbeya (R)	159	16	29	2	1,910	564	400	0.71	38,510	13,216	9,420.36	0.71	0	.	.	.
Kyela	113	9	16	1.79	0	.	.	.	5,417	1,112	1,101.86	0.99	0	.	.	.
Rungwe	7,755	891	1,074	1.21	204	165	2,449	14.82	68,977	19,476	7,056.43	0.36	0	.	.	.
Ileje	1,336	221	204	0.92	0	.	.	.	26,093	7,515	3,371.24	0.45	157	32	7.07	0.22
Mbozi	284	17	31	1.79	0	.	.	.	84,282	37,483	30,944.68	0.83	284	29	.00	-
Mbarali	0	.	.	.	0	.	.	.	2,776	758	1,084.48	1.43	252	38	22.71	0.59
Mbeya U	0	.	.	.	75	19	18	1	7,320	1,983	2,113.02	1.07	0	.	.	.
Total	9,647	1,154	1,354	1	2,314	753	2,870	4	245,113	86,326	58,280.46	0.68	1,817	478	364.36	0.76

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Green gram				Chick peas				Bambaranuts				Field Peas			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	125	13	5.00	0.40					749	252.811	203.5681	0.81	125	13	0	0.00
Mbeya (R)	0	.	.	.					0	.	.	.	2,864	773	391	0.51
Kyela	0	.	.	.					1,580	222	398.17	1.80	0	.	.	.
Rungwe	0	.	.	.					0	.	.	.	0	.	.	.
Ileje	0	.	.	.					1,022	98.0023	35.91689	0.37	1,179	302	122	0.41
Mbozi	0	.	.	.					568	86	28.38	0.33	4,257	919	675	0.73
Mbarali	0	.	.	.					252	179	290.17	1.62	0	.	.	.
Mbeya U	0	.	.	.					0	.	.	.	1,245	350	199	0.57
Total	125	13	5.00	0.40					4,171	837	956.20	1.14	9,670	2,357	1,387	1

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Sunflower				Simsim				Groundnut				Soya Beans			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	10,116	5,486	3,969.45	0.72	7,368	11,690	5,630.60	0.48	16,985	7,971	5,903.10	0.74	0	.	.	.
Mbeya (R)	3,819	2,770	2,634.88	0.95	955	1,675	1,071.74	0.64	4,933	1,876	1,520.17	0.81	0	.	.	.
Kyela	113	23	9.03	0.40	226	77.67748	57.10757	0.74	8,690	1,492	2,052.94	1.38				
Rungwe	0	.	.	.	0	.	.	.	13,469	3,258	1,368.92	0.42	204	50.39855	6.1222	0.12
Ileje	1,965	482	323.88	0.67	79	16	1.96	0.12	8,724	2,466	1,001.11	0.41	157	24	8.65	0.36
Mbozi	14,473	4,412	2,203.24	0.50	7,662	4,739	3,010.87	0.64	45,688	12,942	6,293.31	0.49	568	86.16691	22.702	0.26
Mbarali	2,649	1,721	928.41	0.54	126	255	69.39	0.27	5,930	3,407	2,757.11	0.81				
Mbeya U	264	68	62.56	0.92	0	.	.	.	0	.	.	.				
Total	33,399	14,963	10,131.46	0.68	16,416	18,453	9,841.67	0.53	104,418	33,412	20,896.6	0.63	929	160	37.47	0.23

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Bitter Aubergine				Kothmir				Onion				Ginger			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya									0	.	.	.	0	.	.	.
Mbeya (R)									1,591	470	560	1.19	0	.	.	.
Kyela									0	.	.	.	0	.	.	.
Rungwe									0	.	.	.	0	.	.	.
Ileje									943	195	481	2.47	0	.	.	.
Mbozi									568	172	169	0.98	284	57	459	8
Mbarali									126	13	89	7.00	0	.	.	.
Mbeya U									189	57	157	2.78	0	.	.	.
Total									3,417	907	1,456	2	284	57	459	8

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Zukkin				Okra				Cabbage				Tomatoes			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya					125	15	4	0	0	.	.	.	125	51	30	1
Mbeya (R)					0	.	.	.	477	145	652	5	1,910	403	5,919	15
Kyela					226	34	23	1	0	.	.	.	226	34	109	3
Rungwe					0	.	.	.	0	.	.	.	816	207	1,837	9
Ileje					0	.	.	.	314	16	35	2	550	70	305	4
Mbozi					0	.	.	.	851	172	369	2	3,405	747	5,986	8
Mbarali					378	179	347	2	0	.	.	.	757	153	3,473	23
Mbeya U					38	8	8	1	226	50	675	14	566	122	1,532	13
Total					767	236	381	2	1,869	383	1,731	5	8,355	1,786	19,191	11

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Spinach				Carrot				Chillies				Amaranths			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mbeya (R)	0	.	.	.	0	.	.	.	0	.	.	.	113	6	41	6.86
Kyela	0	.	.	.	0	.	.	.	0	.	.	.	1,224	69	80	1.15
Rungwe	408	29	377.53	13.06	0	.	.	.	0	.	.	.	79	3	6.13	2.14
Ileje	393	24.81876	118.2035	4.76	0	.	.	.	0	.	.	.	284	29	3	0.10
Mbozi	568	86	45.97	0.53	0	.	.	.	0	.	.	.	0	.	.	.
Mbarali	126	38.30782	252.3209	6.59	126	13	13	1	0	.	.	.	377	63	632	10.04
Mbeya U	340	48	357	7	302	65	779	12	38	7	26	3.53	2,077	170	761	4.48
Total	1,834	226	1,151.36	5.10	428	78	792	10	38	7	26.41	3.53				

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Pumpkins				Cucumber				Egg Plant				Water Mellon			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya													0	.	.	.
Mbeya (R)	125	5	1.87	0.37									0	.	.	.
Kyela	0	.	.	.									0	.	.	.
Rungwe	408	17	8.16	0.49									0	.	.	.
Ileje	314	11	15	1.34									0	.	.	.
Mbozi	0	.	.	.									126	25.53855	504.64	19.76
Mbarali	0	.	.	.									0	.	.	.
Mbeya U	0	.	.	.									126	26	505	20
Total	847	33	24.97	0.76												

Cont.. 5.12: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08

District	Cotton				Tobacco				Pyrethrum				Jute			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Chunya	0	.	.	.	5,495	6,131	6,609.60	1.08	0	.	.	.				
Mbeya (R)	0	.	.	.	0	.	.	.	4,933	1,289	588	0				
Kyela																
Rungwe	0	.	.	.	204	83	30.61	0.37	0	.	.	.				
Ileje	79	16	2.36	0.15	0	.	.	.	786	286	100	0				
Mbozi	0	.	.	.	284	115	6.24	0.05	0	.	.	.				
Mbarali																
Mbeya U																
Total	79	16	2.36	0.15	5,983	6,328	6,646.45	1.05	5,719	1,575	688	0				

CROP PRODUCTION GENERAL

5.13: Number of Crop Growing Households and Area Planted (ha) by Season and District

District	Short Rainy Season		Long Rainy Season		Total area planted (hectare)	% Area planted in short rainy season
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)		
Chunya	999	809	50,455	104,711	105,520	0.77
Mbeya (R)	9,389	7971.337	60,788	70,122	78,093	10.21
Kyela	0	0	44,467	39,990	39,990	-
Rungwe	78,364	36,204	70,201	24,271	60,475	59.87
Ileje	8,724	7,475	27,193	29,280	36,755	20.34
Mbozi	0	0	114,362	155,904	155,904	-
Mbarali	126	102	50,843	80,682	80,785	0.13
Mbeya	38	11	12,905	10,850	10,862	0.11
Total	97,639	52,573	431,213	515,810	568,383	9.25

5.14: Number of Crop Growing Households Planting Crops by Season and District

District	Short Rainy Season		Long Rainy Season		Total Number of Crop Growing households
	Number of households Growing Crops	Number of households NOT Growing Crops	Number of households Growing Crops	Number of households NOT Growing Crops	
Chunya	999	49,581	50,455	125	50,580
Mbeya (R)	9,389	55,059	60,788	3,660	64,448
Kyela	0	45,709	44,467	1,241	45,709
Rungwe	78,364	4,286	70,201	12,448	82,649
Ileje	8,724	23,106	27,193	4,637	31,830
Mbozi	0	114,929	114,362	568	114,929
Mbarali	126	50,969	50,843	252	51,095
Mbeya U	38	13,546	12,905	679	13,584
Total	97,639	357,185	431,213	23,611	454,824

5.15: Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Rainy Season - Mbeya Region

Crop	SHORT RAINY		LONG RAINY		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	90,759	41,790	310,612	229,612	401,372	271,402
Paddy	3,265	1,262	99,257	80,006	102,522	81,267
Sorghum	-	-	24,308	19,646	24,308	19,646
Bulrush Millet	-	-	2,679	1,544	2,679	1,544
Finger Millet	1,509	344	18,795	7,265	20,303	7,608
Wheat	-	-	12,149	5,419	12,149	5,419
CEREALS	95,533	43,395	467,800	343,492	563,333	386,887
Yam	-	-	204	83	204	83
Cassava	-	-	23,966	9,274	23,966	9,274
Sweet Potato	2,152	489	16,791	4,831	18,943	5,320
Irish potatoes	1,090	356	11,084	4,428	12,174	4,784
Yams	-	-	79	16	79	16
Coco Yam	3,626	390	6,020	764	9,647	1,154
ROOTS & TUBERS	6,868	1,235	58,144	19,395	58,144	19,395
Mung Bean	367	182	1,947	571	2,314	753
Beans	9,273	3,575	235,840	82,752	245,113	86,326
Cowpeas	-	-	1,817	478	1,817	478
Green gram	-	-	125	13	125	13
Bambaranuts	-	-	4,171	837	4,171	837
Field Peas	318	81	9,352	2,277	9,670	2,357
PULSESES	9,958	3,837	253,252	86,928	263,210	90,765
Sunflower	-	-	33,399	14,963	33,399	14,963
Simsim	-	-	16,416	18,453	16,416	18,453
Groundnut	12,480	3,128	91,938	30,284	104,418	33,412
Soya Beans	-	-	929	160	929	160
OIL SEEDS & OIL NUTS	12,480	3,128	142,681	63,860	155,162	66,988
Okra	125	15	642	221	767	236
Onion	157	33	3,260	874	3,417	907
Ginger	-	-	284	57	284	57
Cabbage	633	144	1,237	238	1,869	383
Tomatoes	927	138	7,428	1,648	8,355	1,786
Spinach	314	17	1,520	209	1,834	226
Carrot	-	-	428	78	428	78
Chillies	-	-	38	7	38	7
Amaranths	1,099	66	978	104	2,077	170
Pumpkins	439	16	408	17	847	33
Water Mellon	-	-	126	26	126	26
FRUITS & VEGETABLES	3,695	429	16,348	3,478	20,043	3,908
Cotton	-	-	79	16	79	16
Tobacco	-	-	5,983	6,328	5,983	6,328
Pyrethrum	1,273	548	4,446	1,027	5,719	1,575
CASH CROPS	1,273	548	10,507	7,371	11,781	7,919
Total	129,808	52,573	925,689	515,810	1,055,497	568,383

5.16: Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 Agriculture year - Mbeya Region

Crop	SHORT RAINY SEASON			LONG RAINY SEASON			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	41,790	56,543	1.4	229,612	438,266	1.9	271,402	494,810	1.8
Paddy	1,262	561	0.4	80,006	163,504	2.0	81,267	164,065	2.0
Sorghum	0	0	0.0	19,646	21,480	1.1	19,646	21,480	1.1
Bulrush Millet	0	0	0.0	1,544	837	0.5	1,544	837	0.5
Finger Millet	344	530	1.5	7,265	3,846	0.5	7,608	4,376	0.6
Wheat	0	0	0.0	5,419	4,153	0.8	5,419	4,153	0.8
CEREALS	43,395	57,635	1.3	343,492	632,086	1.8	386,887	689,720	1.8
Yam	0	0	0.0	83	29	0.3	83	29	0.3
Cassava	0	0	0.0	9,274	13,119	1.4	9,274	13,119	1.4
Sweet Potato	489	893	1.8	4,831	9,016	1.9	5,320	9,909	1.9
Irish potatoes	356	1,418	4.0	4,428	16,967	3.8	4,784	18,386	3.8
Yams	0	0	0.0	16	31	2.0	16	31	2.0
Coco Yam	390	294	0.8	764	1,060	1.4	1,154	1,354	1.2
ROOTS & TUBERS	1,235	2,605	2.1	19,396	40,222	2.1	20,631	42,827	2.1
Mung Bean	182	2,464	13.6	571	405	0.7	753	2,870	3.8
Beans	3,575	2,745	0.8	82,752	55,535	0.7	86,326	58,280	0.7
Cowpeas	0	0	0.0	478	364	0.8	478	364	0.8
Green gram	0	0	0.0	13	5	0.4	13	5	0.4
Bambaranuts	0	0	0.0	837	956	1.1	837	956	1.1
Field Peas	81	29	0.4	2,277	1,358	0.6	2,357	1,387	0.6
PULSESES	3,837	5,238	1.4	86,928	58,624	0.7	90,765	63,862	0.7
Sunflower	0	0	0.0	14,963	10,131	0.7	14,963	10,131	0.7
Simsim	0	0	0.0	18,453	9,842	0.5	18,453	9,842	0.5
Groundnut	3,128	1,348	0.4	30,284	19,549	0.6	33,412	20,897	0.6
Soya Beans	0	0	0.0	160	37	0.2	160	37	0.2
OIL SEEDS & OIL NUTS	3,128	1,348	0.4	63,860	39,559	0.6	66,988	40,907	0.6
Okra	15	4	0.2	221	377	1.7	236	381	1.6
Onion	33	225	6.9	874	1,231	1.4	907	1,456	1.6
Ginger	0	0	0.0	57	459	8.0	57	459	8.0
Cabbage	144	528	3.7	238	1,203	5.1	383	1,731	4.5
Tomatoes	138	2725	19.7	1,648	16,466	10.0	1,786	19,191	10.7
Spinach	17	69	4.1	209	1,082	5.2	226	1,151	5.1
Carrot	0	0	0.0	78	792	10.2	78	792	10.2
Chillies	0	0	0.0	7	26	3.5	7	26	3.5
Amaranths	66	14	0.2	104	747	7.2	170	761	4.5
Pumpkins	16	17	1.0	17	8	0.5	33	25	0.8
Water Mellon	0	0	0.0	26	505	19.8	26	505	19.8
FRUITS & VEGETABLES	429	3582	8.3	3,478	22,897	6.6	3,908	26,478	6.8
Cotton	0	0	0.0	16	2	0.1	16	2	0.1
Tobacco	0	0	0.0	6,328	6,646	1.1	6,328	6,646	1.1
Pyrethrum	548	286	0.5	1,027	402	0.4	1,575	688	0.4
CASH CROPS	548	286	0.5	7,371	7,051	1.0	7,919	7,337	0.9
Total	52,573	70,694	1.3	515,810	787,783	1.5	568,383	858,477	1.5

CROP STORAGE

5.17: Number of households Storing Crops Season and District

District	SHORT RAINY SEASON					LONG RAINY SEASON					SHORT & LONG RAINY SEASON				
	Number of households storing crops	%	Number of households not storing crops	%	Total	Number of households storing crops	%	Number of households not storing crops	%	Total	Number of households storing crops	%	Number of households not storing crops	%	Total
Chunya	999	100	0	0	999	49,706	99	749	1	50,455	50,705	99	749	1	51,454
Mbeya (R)	9,389	0	0	0	9,389	59,356	98	1,432	2	60,788	68,744	98	1,432	2	70,176
Kyela	0	0	0	0	0	43,226	97	1,241	3	44,467	43,226	97	1,241	3	44,467
Rungwe	77,752	99	612	1	78,364	69,385	99	816	1	70,201	147,137	99	1,429	1	148,565
Ileje	8,567	98	157	2	8,724	26,800	99	393	1	27,193	35,367	98	550	2	35,917
Mbozi	0	0	0	0	0	113,227	99	1,135	1	114,362	113,227	99	1,135	1	114,362
Mbarali	126	100	0	0	126	48,698	96	2,145	4	50,843	48,824	96	2,145	4	50,969
Mbeya Urban	38	100	0	0	38	12,188	94	717	6	12,905	12,226	94	717	6	12,942
Total	96,870	99	769	1	97,639	422,584	98	8,629	2	431,213	519,454	98	9,398	2	528,853

5.18: Number of Households Storing Crops by Method of Storage and Crop Type, Short Rainy Season - Mbeya Region

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	63,028	69.4	1,020	1.1	204	.2	23,718	26.1	79	.1	1,204	1.3	1,507	1.7	0	.0	90,759	100.0
Paddy	816	25.0	0	.0	0	.0	2,245	68.8	0	.0	0	.0	204	6.3	0	.0	3,265	100.0
Sorghum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	316	21.0	0	.0	0	.0	0	.0	0	.0	159	10.5	874	57.9	159	10.5	1,509	100.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CEREALS	64,160	67.2	1,020	1.1	204	.2	25,962	27.2	79	.1	1,363	1.4	2,585	2.7	159	.2	95,533	100.0
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	723	33.6	0	.0	204	9.5	0	.0	0	.0	79	3.7	361	16.8	786	36.5	2,152	100.0
Irish potatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	1,090	100.0	0	.0	1,090	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	1,429	39.4	1,020	28.1	612	16.9	0	.0	0	.0	0	.0	487	13.4	79	2.2	3,626	100.0
ROOTS & TUBERS	2,151	31.3	1,020	14.9	816	11.9	0	.0	0	.0	79	1.1	1,938	28.2	865	12.6	6,868	100.0
Mung Bean	204	55.7	0	.0	0	.0	163	44.3	0	.0	0	.0	0	.0	0	.0	367	100.0
Beans	3,534	38.1	0	.0	0	.0	5,344	57.6	79	.8	159	1.7	157	1.7	0	.0	9,273	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bambaranuts	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	159	50.0	0	.0	0	.0	159	50.0	0	.0	318	100.0
PULSES	3,738	37.5	0	.0	0	.0	5,666	56.9	79	.8	159	1.6	316	3.2	0	.0	9,958	100.0
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	11,711	93.8	0	.0	0	.0	691	5.5	0	.0	0	.0	79	.6	0	.0	12,480	100.0
Soya Beans	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
OIL SEEDS & OIL NUTS	11,711	93.8	0	.0	0	.0	691	5.5	0	.0	0	.0	79	.6	0	.0	12,480	100.0

Cont 5.18 : Number of Households Storing Crops by Method of Storage and Crop Type, Short Rainy Season - Mbeya Region

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	125	100.0	0	.0	0	.0	0	.0	0	.0	125	100.0
Onion	79	50.0	0	.0	0	.0	79	50.0	0	.0	0	.0	0	.0	0	.0	157	100.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	79	12.4	0	.0	554	87.6	0	.0	633	100.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	927	100.0	0	.0	927	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	314	100.0	0	.0	314	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	1,020	92.8	0	.0	79	7.2	0	.0	0	.0	0	.0	0	.0	1,099	100.0
Pumpkins	0	.0	0	.0	0	.0	203	46.3	0	.0	79	17.9	157	35.8	0	.0	439	100.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	79	2.1	1,020	27.6	0	.0	486	13.1	79	2.1	79	2.1	1,953	52.9	0	.0	3,695	100.0
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pyrethrum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	1,273	100.0	0	.0	1,273	100.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	1,273	100.0	0	.0	1,273	100.0
Total	81,839	63.0	3,061	2.4	1,020	.8	32,805	25.3	236	.2	1,679	1.3	8,144	6.3	1,024	.8	129,808	100.0

5.19: Number of Households Storing Crops by Method of Storage and Crop Type, Long Rainy Season - Mbeya Region

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	73,515	23.7	1,956	.6	285	.1	221,917	71.4	469	.2	768	.2	9,472	3.0	2,231	.7	310,612	100.0
Paddy	17,473	17.6	3,579	3.6	0	.0	70,548	71.1	352	.4	283	.3	5,256	5.3	1,766	1.8	99,257	100.0
Sorghum	14,759	60.7	284	1.2	0	.0	8,005	32.9	0	.0	0	.0	1,260	5.2	0	.0	24,308	100.0
Bulrush Millet	1,986	74.2	0	.0	0	.0	125	4.7	0	.0	0	.0	568	21.2	0	.0	2,679	100.0
Finger Millet	5,978	31.8	0	.0	0	.0	9,114	48.5	0	.0	0	.0	3,702	19.7	0	.0	18,795	100.0
Wheat	558	4.6	38	.3	0	.0	9,128	75.1	0	.0	79	.6	2,347	19.3	0	.0	12,149	100.0
CEREALS	114,269	24.4	5,857	1.3	285	.1	318,838	68.2	820	.2	1,130	.2	22,605	4.8	3,997	.9	467,800	100.0
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	204	100.0	0	.0	204	100.0
Cassava	79	8.5	0	.0	0	.0	718	77.8	0	.0	0	.0	0	.0	126	13.7	922	100.0
Sweet Potato	6,062	36.1	408	2.4	113	.7	3,855	23.0	251	1.5	1,918	11.4	2,735	16.3	1,449	8.6	16,791	100.0
Irish potatoes	163	1.5	284	2.6	0	.0	3,120	28.2	0	.0	197	1.8	7,320	66.0	0	.0	11,084	100.0
Yams	79	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	79	100.0
Coco Yam	2,749	45.7	204	3.4	0	.0	317	5.3	0	.0	79	1.3	2,514	41.8	157	2.6	6,020	100.0
ROOTS & TUBERS	9,131	26.0	896	2.6	113	.3	8,010	22.8	251	.7	2,193	6.2	12,774	36.4	1,732	4.9	35,100	100.0
Mung Bean	0	.0	0	.0	0	.0	1,788	91.8	0	.0	0	.0	159	8.2	0	.0	1,947	100.0
Beans	75,051	31.8	2,142	.9	816	.3	146,448	62.1	2,149	.9	38	.0	8,469	3.6	728	.3	235,840	100.0
Cowpeas	328	18.1	0	.0	0	.0	1,080	59.4	0	.0	0	.0	409	22.5	0	.0	1,817	100.0
Green gram	0	.0	0	.0	0	.0	125	100.0	0	.0	0	.0	0	.0	0	.0	125	100.0
Bambaranuts	383	9.2	0	.0	0	.0	3,484	83.5	0	.0	0	.0	226	5.4	79	1.9	4,171	100.0
Field Peas	968	10.3	38	.4	0	.0	4,565	48.8	38	.4	79	.8	3,665	39.2	0	.0	9,352	100.0
PULSESES	76,730	30.3	2,180	.9	816	.3	157,490	62.2	2,187	.9	116	.0	12,927	5.1	806	.3	253,252	100.0
Sunflower	2,297	6.9	410	1.2	0	.0	20,397	61.1	0	.0	0	.0	10,169	30.4	126	.4	33,399	100.0
Simsim	2,716	16.5	284	1.7	0	.0	6,639	40.4	568	3.5	0	.0	6,085	37.1	125	.8	16,416	100.0
Groundnut	13,016	14.2	536	.6	0	.0	69,444	75.5	568	.6	79	.1	7,741	8.4	555	.6	91,938	100.0
Soya Beans	283	30.4	0	.0	0	.0	568	61.1	0	.0	0	.0	79	8.5	0	.0	929	100.0
OIL SEEDS & OIL NUTS	18,311	12.8	1,230	.9	0	.0	97,048	68.0	1,135	.8	79	.1	24,073	16.9	806	.6	142,681	100.0

Cont 5.19 : Number of Households Storing Crops by Method of Storage and Crop Type, Long Rainy Season - Mbeya Region

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	126	19.7	0	.0	277	43.1	0	.0	0	.0	239	37.2	0	.0	642	100.0
Onion	205	6.3	0	.0	0	.0	626	19.2	0	.0	474	14.5	1,796	55.1	159	4.9	3,260	100.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	284	100.0	0	.0	284	100.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	1,237	100.0	0	.0	1,237	100.0
Tomatoes	443	6.0	0	.0	0	.0	322	4.3	0	.0	0	.0	6,663	89.7	0	.0	7,428	100.0
Spinach	204	13.4	0	.0	0	.0	0	.0	0	.0	0	.0	1,316	86.6	0	.0	1,520	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	428	100.0	0	.0	428	100.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	38	100.0	0	.0	38	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	978	100.0	0	.0	978	100.0
Pumpkins	0	.0	408	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	408	100.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	126	100.0	0	.0	126	100.0
FRUITS & VEGETABLES	852	5.2	534	3.3	0	.0	1,225	7.5	0	.0	474	2.9	13,105	80.2	159	1.0	16,348	100.0
Cotton	79	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	79	100.0
Tobacco	204	3.4	0	.0	0	.0	658	11.0	0	.0	0	.0	5,120	85.6	0	.0	5,983	100.0
Pyrethrum	0	.0	0	.0	0	.0	318	7.2	0	.0	0	.0	4,128	92.8	0	.0	4,446	100.0
CASH CROPS	283	2.7	0	.0	0	.0	977	9.3	0	.0	0	.0	9,248	88.0	0	.0	10,507	100.0
Total	219,574	23.7	10,697	1.2	1,214	.1	583,587	63.0	4,393	.5	3,991	.4	94,731	10.2	7,501	.8	925,689	100.0

5.20: Number of Households Storing Crops by Method of Storage and Crop Type, Short and Long Rainy Season - Mbeya Region

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	136,542	34.0	2,976	.7	489	.1	245,635	61.2	547	.1	1,972	.5	10,979	2.7	2,231	.6	401,372	100.0
Paddy	18,289	17.8	3,579	3.5	0	.0	72,793	71.0	352	.3	283	.3	5,460	5.3	1,766	1.7	102,522	100.0
Sorghum	14,759	60.7	284	1.2	0	.0	8,005	32.9	0	.0	0	.0	1,260	5.2	0	.0	24,308	100.0
Bulrush Millet	1,986	74.2	0	.0	0	.0	125	4.7	0	.0	0	.0	568	21.2	0	.0	2,679	100.0
Finger Millet	6,295	31.0	0	.0	0	.0	9,114	44.9	0	.0	159	.8	4,577	22.5	159	.8	20,303	100.0
Wheat	558	4.6	38	.3	0	.0	9,128	75.1	0	.0	79	.6	2,347	19.3	0	.0	12,149	100.0
CEREALS	178,429	31.7	6,877	1.2	489	.1	344,800	61.2	899	.2	2,492	.4	25,190	4.5	4,156	.7	563,333	100.0
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	204	100.0	0	.0	204	100.0
Cassava	79	8.5	0	.0	0	.0	718	77.8	0	.0	0	.0	0	.0	126	13.7	922	100.0
Sweet Potato	6,784	35.8	408	2.2	317	1.7	3,855	20.4	251	1.3	1,996	10.5	3,096	16.3	2,235	11.8	18,943	100.0
Irish potatoes	163	1.3	284	2.3	0	.0	3,120	25.6	0	.0	197	1.6	8,410	69.1	0	.0	12,174	100.0
Yams	79	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	79	100.0
Coco Yam	4,178	43.3	1,224	12.7	612	6.3	317	3.3	0	.0	79	.8	3,001	31.1	236	2.4	9,647	100.0
ROOTS & TUBERS	11,282	26.9	1,916	4.6	929	2.2	8,010	19.1	251	.6	2,272	5.4	14,711	35.1	2,597	6.2	41,969	100.0
Mung Bean	204	8.8	0	.0	0	.0	1,951	84.3	0	.0	0	.0	159	6.9	0	.0	2,314	100.0
Beans	78,585	32.1	2,142	.9	816	.3	151,792	61.9	2,228	.9	197	.1	8,626	3.5	728	.3	245,113	100.0
Cowpeas	328	18.1	0	.0	0	.0	1,080	59.4	0	.0	0	.0	409	22.5	0	.0	1,817	100.0
Green gram	0	.0	0	.0	0	.0	125	100.0	0	.0	0	.0	0	.0	0	.0	125	100.0
Bambranuts	383	9.2	0	.0	0	.0	3,484	83.5	0	.0	0	.0	226	5.4	79	1.9	4,171	100.0
Field Peas	968	10.0	38	.4	0	.0	4,725	48.9	38	.4	79	.8	3,824	39.5	0	.0	9,670	100.0
PULSES	80,468	30.6	2,180	.8	816	.3	163,156	62.0	2,265	.9	275	.1	13,243	5.0	806	.3	263,210	100.0
Sunflower	2,297	6.9	410	1.2	0	.0	20,397	61.1	0	.0	0	.0	10,169	30.4	126	.4	33,399	100.0
Simsim	2,716	16.5	284	1.7	0	.0	6,639	40.4	568	3.5	0	.0	6,085	37.1	125	.8	16,416	100.0
Groundnut	24,727	23.7	536	.5	0	.0	70,135	67.2	568	.5	79	.1	7,819	7.5	555	.5	104,418	100.0
Soya Beans	283	30.4	0	.0	0	.0	568	61.1	0	.0	0	.0	79	8.5	0	.0	929	100.0
OIL SEEDS & OIL NUTS	30,022	19.3	1,230	.8	0	.0	97,738	63.0	1,135	.7	79	.1	24,152	15.6	806	.5	155,162	100.0

Cont 5.20 : Number of Households Storing Crops by Method of Storage and Crop Type, Short and Long Rainy Season - Mbeya Region

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	126	16.5	0	.0	402	52.4	0	.0	0	.0	239	31.2	0	.0	767	100.0
Onion	283	8.3	0	.0	0	.0	705	20.6	0	.0	474	13.9	1,796	52.6	159	4.7	3,417	100.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	284	100.0	0	.0	284	100.0
Cabbage	0	.0	0	.0	0	.0	0	.0	79	4.2	0	.0	1,791	95.8	0	.0	1,869	100.0
Tomatoes	443	5.3	0	.0	0	.0	322	3.8	0	.0	0	.0	7,590	90.9	0	.0	8,355	100.0
Spinach	204	11.1	0	.0	0	.0	0	.0	0	.0	0	.0	1,630	88.9	0	.0	1,834	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	428	100.0	0	.0	428	100.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	38	100.0	0	.0	38	100.0
Amaranths	0	.0	1,020	49.1	0	.0	79	3.8	0	.0	0	.0	978	47.1	0	.0	2,077	100.0
Pumpkins	0	.0	408	48.2	0	.0	203	24.0	0	.0	79	9.3	157	18.5	0	.0	847	100.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	126	100.0	0	.0	126	100.0
FRUITS & VEGETABLES	930	4.6	1,555	7.8	0	.0	1,710	8.5	79	.4	552	2.8	15,058	75.1	159	.8	20,043	100.0
Cotton	79	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	79	100.0
Tobacco	204	3.4	0	.0	0	.0	658	11.0	0	.0	0	.0	5,120	85.6	0	.0	5,983	100.0
Pyrethrum	0	.0	0	.0	0	.0	318	5.6	0	.0	0	.0	5,401	94.4	0	.0	5,719	100.0
CASH CROPS	283	2.4	0	.0	0	.0	977	8.3	0	.0	0	.0	10,521	89.3	0	.0	11,781	100.0
Total	301,413	28.6	13,758	1.3	2,235	.2	616,392	58.4	4,629	.4	5,670	.5	102,875	9.7	8,525	.8	1,055,497	100.0

5.21: Number of Crop Producing households reporting Selling agricultural produce during 2007/08 by District and Season

District	SHORT RAINY SEASON					LONG RAINY SEASON				
	Number of households that sold	%	Number of households that did not sold	%	Total number of households	Number of households that sold	%	Number of households that did not sold	%	Total number of households
Chunya	999	100	0	0	999	38,840	77	11,615	23	50,455
Mbeya (R)	7,002	0	2,387	0	9,389	55,696	92	5,092	8	60,788
Kyela	0	0	0	0	0	38,373	86	6,094	14	44,467
Rungwe	41,427	53	36,937	47	78,364	40,610	58	29,591	42	70,201
Ileje	5,423	62	3,301	38	8,724	20,591	76	6,602	24	27,193
Mbozi	0	0	0	0	0	99,606	87	14,756	13	114,362
Mbarali	126	100	0	0	126	45,292	89	5,551	11	50,843
Mbeya Urban	38	100	0	0	38	10,490	81	2,415	19	12,905
Total	55,014	56	42,625	44	97,639	349,497	81	81,716	19	431,213

INPUT USE

5.22: Number of Households and Planted Area by Organic Fertiliser Use and District - SHORT RAINY SEASON

District	Organic Fertilizer Use						% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area NOT Applied with Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Chunya	125	25	874	784	999	809	3.1
Mbeya (R)	1,750	586	7,638	7,385	9,389	7,971	0.0
Kyela	0	.	0	.	0	.	0.0
Rungwe	7,959	3,409	70,405	32,795	78,364	36,204	9.4
Ileje	2,043	1,381	6,680	6,094	8,724	7,475	18.5
Mbozi	0	.	0	.	0	.	.
Mbarali	0	.	126	102	126	102	.
Mbeya Urban	0	.	38	11	38	11	.
Total	11,878	5,401	85,762	47,172	97,639	52,573	10.3

5.23: Number of Households and Planted Area by Organic Fertiliser Use and District - LONG RAINY SEASON

District	Organic Fertilizer Use						% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area NOT Applied with Organic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Chunya	3,622	3,628	46,833	101,083	50,455	104,711	3.5
Mbeya (R)	4,137	2,521	56,650	67,601	60,788	70,122	3.6
Kyela	1,919	1,571	42,549	38,420	44,467	39,990	3.9
Rungwe	2,449	1,022	67,752	23,249	70,201	24,271	4.2
Ileje	6,366	3,314	20,827	25,966	27,193	29,280	11.3
Mbozi	4,824	2,614	109,538	153,290	114,362	155,904	1.7
Mbarali	1,262	1,674	49,581	79,008	50,843	80,682	2.1
Mbeya Urban	2,226	1,105	10,678	9,746	12,905	10,850	10.2
Total	26,805	17,448	404,409	498,363	431,213	515,810	3.4

5.24: Number of Households and Planted Area by Inorganic Fertiliser Use and District - SHORT RAINY SEASON

District	Inorganic Fertilizer Use						% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area NOT Applied with Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Chunya	999	30	999	779	999	809	3.8
Mbeya (R)	9,389	0	9,389	7,971	9,389	7,971	0.0
Kyela	0	.	0	.	0	.	0.0
Rungwe	78,364	8,913	78,364	27,290	78,364	36,204	24.6
Ileje	8,724	763	8,724	6,712	8,724	7,475	10.2
Mbozi	0	.	0	.	0	.	0
Mbarali	126	0	126	102	126	102	0.0
Mbeya Ur	38	0	38	11	38	11	0.0
Total	97,639	9,707	97,639	42,866	97,639	52,573	18.5

5.25: Number of Households and Planted Area by Inorganic Fertiliser Use and District - LONG RAINY SEASON

District	Inorganic Fertilizer Fertilizer Use						% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area NOT Applied with Inorganic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Chunya	50,455	16,376	50,455	88,334	50,455	104,711	15.6
Mbeya (R)	60,788	20,668	60,788	49,454	60,788	70,122	29.5
Kyela	44,467	2,779	44,467	37,212	44,467	39,990	6.9
Rungwe	70,201	1,482	70,201	22,789	70,201	24,271	6.1
Ileje	27,193	8,686	27,193	20,593	27,193	29,280	29.7
Mbozi	114,362	54,056	114,362	101,847	114,362	155,904	34.7
Mbarali	50,843	11,512	50,843	69,171	50,843	80,682	14.3
Mbeya Urba	12,905	5,942	12,905	4,908	12,905	10,850	54.8
Total	431,213	121,502	431,213	394,308	431,213	515,810	23.6

5.26: Number of Households and Planted Area by Fungicide Use and District - Short Rainy Season

District	Fungicide Use						% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Number of Households NOT using Fungicide	Planted Area NOT Applied with Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Chunya	375	607	624	202	999	809	75.0
Mbeya (R)	0	.	9,389	7,971	9,389	7,971	-
Kyela	0	.	0	.	0	.	-
Rungwe	612	227	77,752	35,976	78,364	36,204	0.6
Ileje	79	8	8,645	7,467	8,724	7,475	0.1
Mbozi	0	.	0	.	0	.	.
Mbarali	126	102	0	.	126	102	100.0
Mbeya Urban	0	.	38	11	38	11	.
Total	1,192	944	96,448	51,629	97,639	52,573	1.8

5.27: Number of Households and Planted Area by Fungicide Use and District - Long Rainy Season

District	Fungicide Use						% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Number of Households NOT using Fungicide	Planted Area NOT Applied with Fungicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Chunya	125	228	50,330	104,483	50,455	104,711	0.2
Mbeya (R)	6,524	2,641	54,263	67,480	60,788	70,122	3.8
Kyela	113	69	44,354	39,922	44,467	39,990	0.2
Rungwe	1,224	537	68,977	23,734	70,201	24,271	2.2
Ileje	157	159	27,036	29,121	27,193	29,280	0.5
Mbozi	4,824	1,379	109,538	154,525	114,362	155,904	0.9
Mbarali	378	236	50,464	80,446	50,843	80,682	0.3
Mbeya Urban	1,849	977	11,056	9,873	12,905	10,850	9.0
Total	15,195	6,226	416,018	509,584	431,213	515,810	1.2

5.28: Number of Households and Planted Area by Herbicide Use and District - Short Rainy Season

District	Herbicide Use						% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Number of Households NOT using Herbicides	Planted Area NOT Applied with Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Chunya	0	.	999	809	999	809	.
Mbeya (R)	0	.	9,389	7,971	9,389	7,971	0.0
Kyela	0	.	0	.	0	.	0.0
Rungwe	204	165	78,160	36,038	78,364	36,204	0.5
Ileje	0	.	8,724	7,475	8,724	7,475	.
Mbozi	0	.	0	.	0	.	.
Mbarali	0	.	126	102	126	102	.
Mbeya Urba	0	.	38	11	38	11	.
Total	204	165	97,435	52,407	97,639	52,573	0.3

5.29: Number of Households and Planted Area by Herbicide Use and District - Long Rainy Season

District	Herbicide Use						% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Number of Households NOT using Herbicides	Planted Area NOT Applied with Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Chunya	375	480	50,080	104,230	50,455	104,711	0.5
Mbeya (R)	318	209	60,470	69,912	60,788	70,122	0.3
Kyela	19,976	14,455	24,491	25,535	44,467	39,990	36.1
Rungwe	3,061	1,327	67,140	22,944	70,201	24,271	5.5
Ileje	0	.	27,193	29,280	27,193	29,280	.
Mbozi	27,810	29,950	86,552	125,953	114,362	155,904	19.2
Mbarali	5,425	9,545	45,418	71,137	50,843	80,682	11.8
Mbeya Urba	679	471	12,226	10,380	12,905	10,850	4.3
Total	57,645	56,438	373,569	459,372	431,213	515,810	10.9

5.30: Number of Households and Planted Area by Improved Seed Use and District - Short Rainy Season

District	Improved Seed						% of area planted using improved seed
	Number of Households using Improved Seed	Planted Area Improved Seed Used	Number of Households NOT using Improved Seeds	Planted Area Improved Seed not Used	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Chunya	250	303	749	506	999	809	37.5
Mbeya (R)	477	193	8,911	7,778	9,389	7,971	0.0
Kyela	0	.	0	.	0	.	0.0
Rungwe	17,958	7,875	60,406	28,329	78,364	36,204	21.8
Ileje	1,179	692	7,545	6,783	8,724	7,475	9.3
Mbozi	0	.	0	.	0	.	.
Mbarali	0	.	126	102	126	102	.
Mbeya Urb	0	.	38	11	38	11	.
Total	19,864	9,064	77,775	43,509	97,639	52,573	0.0

5.31: Number of Households and Planted Area by Improved Seed Use and District - Long Rainy Season

District	Improved Seed						% of area planted using improved seed
	Number of Households using Improved Seed	Planted Area Improved Seed Used	Number of Households NOT using Improved Seeds	Planted Area Improved Seed not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Chunya	18,858	28,690	31,597	76,021	50,455	104,711	27.4
Mbeya (R)	14,322	8,472	46,466	61,650	60,788	70,122	12.1
Kyela	1,241	422	43,226	39,568	44,467	39,990	1.1
Rungwe	1,429	345	68,773	23,926	70,201	24,271	1.4
Ileje	5,501	3,272	21,692	26,007	27,193	29,280	11.2
Mbozi	49,377	45,024	64,985	110,880	114,362	155,904	28.9
Mbarali	10,976	11,162	39,867	69,521	50,843	80,682	13.8
Mbeya Urban	7,282	4,631	5,622	6,220	12,905	10,850	42.7
Total	108,987	102,018	322,226	413,793	431,213	515,810	19.8

**5.32: Number of crop Growing Households and Planted Area (hectare) by Local Seed Use and District; 2007/08
Agriculture Year - SHORT Rainy Season**

District	Using Local seed		Not using Local seed		TOTAL		% of Planted Area Using Local seeds
	Number of Households	Planted Area (ha)	Number of Households	Planted Area (ha)	Number of Households	Planted Area (ha)	
Chunya	749	354	250	455	999	809	43.8
Mbeya (R)	9,389	7,665	0	306	9,389	7,971	0.0
Kyela	0	.	0	.	0	.	0.0
Rungwe	63,059	27,022	15,305	9,181	78,364	36,204	74.6
Ileje	7,938	6,695	786	935	8,724	7,475	89.6
Mbozi	0	.	0	.	0	.	.
Mbarali	126	102	0	.	126	102	100.0
Mbeya Urban	38	11	0	.	38	11	100.0
Total	81,298	41,850	16,341	10,877	97,639	52,573	79.6

**5.33: Number of Crop Growing Households and Planted Area (hectare) by Local Seed Use and District; 2007/08
Agriculture Year - LONG Rainy Season**

District	Using Local seed		Not using Local seed		TOTAL		% of Planted Area Using Local seeds
	Number of Households	Planted Area (ha)	Number of Households	Planted Area (ha)	Number of Households	Planted Area (ha)	
Chunya	45,459	74,282	4,996	30,429	50,455	104,711	71
Mbeya (R)	57,287	60,424	3,501	9,698	60,788	70,122	86
Kyela	44,129	39,272	339	718	44,467	39,990	98
Rungwe	70,201	23,761	0	511	70,201	24,271	98
Ileje	26,250	25,345	943	3,935	27,193	29,280	87
Mbozi	108,403	108,015	5,959	47,889	114,362	155,904	69
Mbarali	46,806	68,956	4,037	11,727	50,843	80,682	85
Mbeya Urban	10,226	5,755	2,679	5,096	12,905	10,850	53
Total	408,760	405,809	22,454	110,001	431,213	515,810	79

5.34: Number of Households and Planted Area by Insecticides Use by District - SHORT RAINY SEASON

District	Insecticide Use						% of Planted area using Insecticides
	Number of Households using Insecticides	Planted Area Applied with Insecticides	Number of Households NOT using Insecticides	Planted Area Without Insecticides	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Chunya	749	733	250	76	999	809	90.6
Mbeya (R)	318	129	9,070	7,842	9,389	7,971	0.0
Kyela	0	.	0	.	0	.	0.0
Rungwe	816	392	77,548	35,811	78,364	36,204	1.1
Ileje	157	103	8,567	7,372	8,724	7,475	1.4
Mbozi	0	.	0	.	0	.	.
Mbarali	0	.	126	102	126	102	.
Mbeya Ur	38	11	0	.	38	11	100.0
Total	2,079	1,369	95,561	51,203	97,639	52,573	0.0

5.35: Number of Households and Planted Area by Fungicide Use and District - Long Rainy Season

District	Insecticide Use						% of Planted area using Insecticides
	Number of Households using Insecticides	Planted Area Applied with Insecticides	Number of Households NOT using Insecticides	Planted Area Without Insecticides	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Chunya	3,872	5,448	46,583	99,263	50,455	104,711	5.2
Mbeya (R)	15,595	12,378	45,193	57,744	60,788	70,122	17.7
Kyela	1,016	391	43,451	39,599	44,467	39,990	1.0
Rungwe	1,633	578	68,568	23,693	70,201	24,271	2.4
Ileje	1,572	1,110	25,621	28,170	27,193	29,280	3.8
Mbozi	19,864	19,029	94,498	136,875	114,362	155,904	12.2
Mbarali	4,416	3,247	46,427	77,436	50,843	80,682	4.0
Mbeya Urb	3,585	2,582	9,320	8,268	12,905	10,850	23.8
Total	51,551	44,762	379,662	471,048	431,213	515,810	8.7

5.36: Number of Households and Planted Area by Irrigation Use and District - SHORT RAINY SEASON

District	Irrigation use						% of area planted under irrigation in Short rainy season
	Number of Households using Irrigation	Planted Area with Irrigation	Number of Households NOT using Irrigation	Planted Area with no Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Chunya	999	809	0	.	999	809	100.0
Mbeya (R)	159	177	9,230	7,794	9,389	7,971	0.0
Kyela	0	.	0	.	0	.	0.0
Rungwe	408	41	77,956	36,162	78,364	36,204	0.1
Ileje	1,572	438	7,152	7,037	8,724	7,475	5.9
Mbozi	0	.	0	.	0	.	-
Mbarali	126	102	0	.	126	102	100.0
Mbeya Urban	0	.	38	11	38	11	-
Total	3,264	1,568	94,375	51,005	97,639	52,573	3.0

5.37: Number of Households and Planted Area by Irrigation Use and District - LONG RAINY SEASON

District	Irrigation use						% of area planted under irrigation in long rainy season
	Number of Households using Irrigation	Planted Area with Irrigation	Number of Households NOT using Irrigation	Planted Area with no Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Chunya	2,248	793	48,207	103,917	50,455	104,711	0.8
Mbeya (R)	2,864	1,248	57,923	68,873	60,788	70,122	1.8
Kyela	451	366	44,016	39,625	44,467	39,990	0.9
Rungwe	1,429	1,056	68,773	23,215	70,201	24,271	4.4
Ileje	2,043	1,013	25,150	28,266	27,193	29,280	3.5
Mbozi	15,324	9,022	99,038	146,881	114,362	155,904	5.8
Mbarali	19,303	18,040	31,540	62,643	50,843	80,682	22.4
Mbeya Urban	641	312	12,263	10,539	12,905	10,850	2.9
Total	44,304	31,850	386,910	483,960	431,213	515,810	6.2

PERMANENT CROPS

5.38: Number of Households Planting Permanent Crops by District, 2007/08 Agriculture Year

District	Have Crops/Fruit Trees		Does Not Have Crops/Fruit Trees		Total	
	Number	%	Number	%	Number	%
Chunya	2,123	4	48,457	95.8	50,580	100.0
Mbeya (R)	12,730	20	51,717	80.2	64,448	100.0
Kyela	33,745	74	11,963	26.2	45,709	100.0
Rungwe	75,303	91	7,347	8.9	82,649	100.0
Ileje	11,003	35	20,827	65.4	31,830	100.0
Mbozi	53,634	47	61,296	53.3	114,929	100.0
Mbarali	1,262	2	49,833	97.5	51,095	100.0
Mbeya Urban	1,019	7	12,565	92.5	13,584	100.0
Total	190,819	42	264,005	58.0	454,824	100.0

5.39: Planted Area and Area Harvested by Type of Planting and District

District	Area of Permanent Monocrop (ha)		Area of Permanent Mixed Crop (ha)		Total Area Planted Mono + Mixed (ha)		Area Harvested (ha)
	Number of households	Area	Number of households	Area	Number of households	Area	
Chunya	1,624	372	999	246	2,123	618	443
Mbeya (R)	11,935	6,249	2,387	2,795	12,730	9,044	6,053
Kyela	12,979	8,043	25,168	13,559	33,633	21,602	9,315
Rungwe	37,958	13,864	48,365	28,612	75,099	42,476	29,269
Ileje	7,231	4,097	4,165	3,675	10,924	7,772	5,046
Mbozi	45,972	30,322	13,905	23,509	53,634	53,831	38,158
Mbarali	757	61	505	244	1,262	305	98
Mbeya Urban	302	149	830	147	1,019	296	152
Total	118,756	63,156	96,325	72,787	190,423	135,944	88,533

5.40: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - Chunya

Crop	Total Area Planted Mono + Mixed (ha)		Area Harvested (ha)	Quantity Harvested (ton)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Cashewnut					0	-	-
Banana	874	145	82	329	329,456	4.0	4,015
Coffee					0	-	-
Mango	1,124	235	126	506	506,048	4.0	4,022
Pigeon pea					0	-	-
Coconut					0	-	-
Orange					0	-	-
Sugarcane					0	-	-
Palmoil					0	-	-
Tea					0	-	-
Other	999	238	235	418	418,251	1.8	1,781
Total	2,997	618	443	1,254	1,253,755	2.8	2,832

5.41: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - Mbeya Rural

Crop	Total Area Planted Mono + Mixed (ha)		Area Harvested (ha)	Quantity Harvested (ton)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Cashewnut	0	0	0	0	0	-	-
Banana	1,591	218	199	485	485,348	2.4	2,435
Coffee	11,139	8,609	5,646	5,107	5,106,971	0.9	904
Mango	159	1	1	0	0	0.0	0
Pigeon pea	0	0	0	0	0	-	-
Coconut	0	0	0	0	0	-	-
Orange		0	0	0	0	-	-
Sugarcane	159	94	94	255	254,609	2.7	2,709
Palmoil	0	0	0	0	0	-	-
Tea	0	0	0	0	0	-	-
Other	637	122	113	33	33,417	0.3	296
Total	13,685	9,044	6,053	5,880	5,880,345	1.0	971

5.42: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - Kyela

Crop	Total Area Planted Mono + Mixed (ha)		Area Harvested (ha)	Quantity Harvested (ton)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Cashewnut	1,806	2,017	138	221	221,433	1.6	1,605
Banana	22,346	3,047	1,839	13,944	13,943,501	7.6	7,582
Coffee	0	0	0	0	0	-	-
Mango	5,982	3,792	114	2,777	2,776,714	24.4	24,407
Pigeon pea	564	54	54	48	47,627	0.9	887
Coconut	564	35	12	41	41,194	3.4	3,383
Orange	3,499	307	41	3,131	3,130,872	76.1	76,060
Sugarcane	339	94	37	43	43,339	1.2	1,157
Palmoil	18,396	2,277	1,003	3,448	3,448,349	3.4	3,439
Tea	113	2	2	0	0	0.0	0
Other	36,341	9,977	6,075	27,081	27,080,837	4.5	4,458
Total	89,950	21,602	9,315	50,734	50,733,867	5.4	5,447

5.43: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - Rungwe

Crop	Total Area Planted Mono + Mixed (ha)		Area Harvested (ha)	Quantity Harvested (ton)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Cashewnut	0	0	0	0	0	-	-
Banana	71,017	26,906	19,970	143,350	143,349,729	7.2	7,178
Coffee	17,550	6,269	3,679	1,929	1,929,304	0.5	524
Mango	3,673	258	27	573	572,832	21.2	21,152
Pigeon pea	204	6	6	4	4,081	0.7	726
Coconut	0	0	0	0	0	-	-
Orange	612	6	2	6	5,918	3.2	3,245
Sugarcane	2,449	566	399	6,559	6,559,105	16.4	16,446
Palmoil	3,673	184	1	257	256,520	319.3	319,278
Tea	7,551	2,661	2,472	13,886	13,885,523	5.6	5,616
Other	23,672	5,620	2,713	13,581	13,580,638	5.0	5,006
Total	130,403	42,476	29,269	180,144	180,143,651	6.2	6,155

5.44: Area Planted, Area Harvested, Quantity Harvested and Yield by Type of Permanent Crop - Ileje

Crop	Total Area Planted Mono + Mixed (ha)		Area Harvested (ha)	Quantity Harvested (ton)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Cashewnut	0	0	0	0	0	-	-
Banana	6,916	1,561	566	3,762	3,761,842	6.6	6,644
Coffee	6,445	3,774	3,087	2,373	2,373,265	0.8	769
Mango	157	228	20	100	100,442	5.0	5,033
Pigeon pea	79	2	2	3	3,301	1.5	1,524
Coconut	0	0	0	0	0	-	-
Orange	157	140	20	126	125,748	6.3	6,301
Sugarcane	629	96	92	802	801,646	8.7	8,678
Palmoil	0	0	0	0	0	-	-
Tea	0	0	0	0	0	-	-
Other	4,951	1,970	1,258	2,926	2,926,480	2.3	2,326
Total	19,334	7,772	5,046	10,093	10,092,724	2.0	2,000

5.45: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - Mbozi

Crop	Total Area Planted Mono + Mixed (ha)		Area Harvested (ha)	Quantity Harvested (ton)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Cashewnut	0	0	0	0	0	-	-
Banana	6,811	456	384	1,118	1,118,363	2.9	2,912
Coffee	43,702	44,484	33,738	21,186	21,186,176	0.6	628
Mango	3,405	1,328	50	1,585	1,584,891	31.5	31,524
Pigeon pea	0	0	0	0	0	-	-
Coconut	284	2,446	.	426	425,665	-	-
Orange	851	16	.	255	255,399	-	-
Sugarcane	1,419	531	531	9,377	9,376,822	17.7	17,669
Palmoil	0	0	0	0	0	-	-
Tea	0	0	0	0	0	-	-
Other	12,486	4,570	3,455	2,717	2,716,591	0.8	786
Total	68,958	53,831	38,158	36,664	36,663,906	1.0	961

5.46: Area Planted, Area Harvested, Quantity Harvested and Yield by Type of Permanent Crop - Mbalali

Crop	Total Area Planted Mono + Mixed (ha)		Area Harvested (ha)	Quantity Harvested (ton)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Cashewnut	0	0	0	0	0	-	-
Banana	378	75	24	7,570	7,569,626	311.0	311,020
Coffee	0	0	0	0	0	-	-
Mango	757	197	41	506	506,029	12.3	12,275
Pigeon pea	0	0	0	0	0	-	-
Coconut	0	0	0	0	0	-	-
Orange	0	0	0	0	0	-	-
Sugarcane	126	12	12	378	378,481	30.5	30,480
Palmoil	0	0	0	0	0	-	-
Tea	0	0	0	0	0	-	-
Other	378	20	20	0	0	0.0	0
Total	1,640	305	98	8,454	8,454,136	86.4	86,400

5.47: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - Mbeya Region

Crop	Total Area Planted Mono + Mixed (ha)		Area Harvested (ha)	Quantity Harvested (ton)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Cashewnut	1,806	2,017	138	221	221,433	1.6	1,605
Banana	110,652	32,459	23,103	170,787	170,787,017	7.4	7,392
Coffee	79,175	63,293	46,245	30,626	30,626,130	0.7	662
Mango	15,371	6,040	379	6,119	6,118,650	16.1	16,129
Pigeon pea	847	61	61	55	55,010	0.9	895
Coconut	848	2,481	12	467	466,859	38.3	38,340
Orange	5,195	470	63	3,520	3,520,201	55.8	55,758
Sugar cane	5,196	1,396	1,168	17,418	17,417,813	14.9	14,915
Palm oil	22,070	2,461	1,004	3,705	3,704,869	3.7	3,692
Tea	7,664	2,663	2,474	13,886	13,885,523	5.6	5,612
Other	80,371	22,602	13,885	47,674	47,673,885	3.4	3,434
Total	329,193	135,944	88,533	294,477	294,477,388	3.3	3,326

5.48: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Cashewnut							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Chunya	-	-	-	-	-	-	-	-
Mbeya (R)	-	-	-	-	-	-	-	-
Kyela	339	160	1,693	1,857	1,806	2,017	138	221
Rungwe	-	-	-	-	-	-	-	-
Ileje	-	-	-	-	-	-	-	-
Mbozi	-	-	-	-	-	-	-	-
Mbarali	-	-	-	-	-	-	-	-
Mbeya Urban	-	-	-	-	-	-	-	-
Total	339	160	1,693	1,857	1,806	2,017	138	221

Cont. 5.48: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Coffee							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Chunya	-	-	-	-	-	-	-	-
Mbeya (R)	10,503	5,855	2,228	2,754	11,139	8,609	5,646	5,107
Kyela	-	-	-	-	-	-	-	-
Rungwe	1,224	157	16,530	6,113	17,550	6,269	3,679	1,929
Ileje	2,908	1,607	3,694	2,167	6,445	3,774	3,087	2,373
Mbozi	37,458	25,410	12,202	19,074	43,702	44,484	33,738	21,186
Mbarali	-	-	-	-	-	-	-	-
Mbeya Urban	151	96	264	60	340	156	95	30
Total	52,244	33,124	34,918	30,169	79,175	63,293	46,245	30,626

Cont. 5.48: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Pigeon pea							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Chunya	-	-	-	-	-	-	-	-
Mbeya (R)	-	-	-	-	-	-	-	-
Kyela	113	27	451	27	564	54	54	48
Rungwe	0	.	204	6	204	6	6	4
Ileje	79	2	0	.	79	2	2	3
Mbozi	-	-	-	-	-	-	-	-
Mbarali	-	-	-	-	-	-	-	-
Mbeya Urban	-	-	-	-	-	-	-	-
Total	191	29	656	33	847	61	61	55

Cont. 5.48: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Orange							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Chunya	-	-	-	-	-	-	-	-
Mbeya (R)	-	-	-	-	-	-	-	-
Kyela	0	.	3,499	307	3,499	307	41	3,131
Rungwe	0	.	612	6	612	6	2	6
Ileje	79	0	79	140	157	140	20	126
Mbozi	0	.	851	16	851	16	.	255
Mbarali	-	-	-	-	-	-	-	-
Mbeya Urban	0	.	75	1	75	1	0	2
Total	79	0	5,116	470	5,195	470	63	3,520

Cont. 5.48: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

Districts	Palm oil							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Chunya	-	-	-	-	-	-	-	-
Mbeya (R)	-	-	-	-	-	-	-	-
Kyela	1,467	250	17,268	2,027	18,396	2,277	1,003	3,448
Rungwe	0	.	3,673	184	3,673	184	1	257
Ileje	-	-	-	-	-	-	-	-
Mbozi	-	-	-	-	-	-	-	-
Mbarali	-	-	-	-	-	-	-	-
Mbeya Urban	-	-	-	-	-	-	-	-
Total	1,467	249,716	20,941	2,212	22,070	2,461	1,004	3,705

Cont. 5.48: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Banana							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Chunya	624	59	624	85	874	145	82	329
Mbeya (R)	1,273	190	477	28	1,591	218	199	485
Kyela	2,709	589	20,766	2,458	22,346	3,047	1,839	13,944
Rungwe	32,244	9,975	47,549	16,932	71,017	26,906	19,970	143,350
Ileje	3,144	1,050	4,165	510	6,916	1,561	566	3,762
Mbozi	1,703	137	5,959	318	6,811	456	384	1,118
Mbarali	0	.	378	75	378	75	24	7,570
Mbeya Urban	151	41	566	10	717	51	38	229
Total	41,847	12,042	80,486	20,418	110,652	32,459	23,103	170,787

Cont. 5.48: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Mango							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Chunya	749	123	749	111	1,124	235	126	506
Mbeya (R)	159	1	0	.	159	1	1	0
Kyela	226	3,113	5,982	679	5,982	3,792	114	2,777
Rungwe	0	.	3,673	258	3,673	258	27	573
Ileje	79	0	79	228	157	228	20	100
Mbozi	1,135	51	2,554	1,277	3,405	1,328	50	1,585
Mbarali	631	41	126	156	757	197	41	506
Mbeya Urban	75	1	38	0	113	1	1	72
Total	3,054	3,331	13,201	2,709	15,371	6,040	379	6,119

Cont. 5.48: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Coconut							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Chunya	-	-	-	-	-	-	-	-
Mbeya (R)	-	-	-	-	-	-	-	-
Kyela	113	23	564	12	564	35	12	41
Rungwe	-	-	-	-	-	-	-	-
Ileje	-	-	-	-	-	-	-	-
Mbozi	284	279	284	2,167	284	2,446	.	426
Mbarali	-	-	-	-	-	-	-	-
Mbeya Urban	-	-	-	-	-	-	-	-
Total	397	302	848	2,179	848	2,481	12	467

Cont. 5.48: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Sugarcane							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Chunya	-	-	-	-	-	-	-	-
Mbeya (R)	159	94	0	.	159	94	94	255
Kyela	113	0	339	94	339	94	37	43
Rungwe	612	201	1,837	365	2,449	566	399	6,559
Ileje	629	96	0	.	629	96	92	802
Mbozi	1,419	531	0	.	1,419	531	531	9,377
Mbarali	0	.	126	12	126	12	12	378
Mbeya Urban	0	.	75	3	75	3	2	4
Total	2,932	922	2,377	474	5,196	1,396	1,168	17,418

Cont. 5.48: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Tea							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Chunya	-	-	-	-	-	-	-	-
Mbeya (R)	-	-	-	-	-	-	-	-
Kyela	0	.	113	2	113	2	2	0
Rungwe	3,469	1,394	4,286	1,267	7,551	2,661	2,472	13,886
Ileje	-	-	-	-	-	-	-	-
Mbozi	-	-	-	-	-	-	-	-
Mbarali	-	-	-	-	-	-	-	-
Mbeya Urban	-	-	-	-	-	-	-	-
Total	3,469	1393.962	4,398	1,269	7,664	2,663	2,474	13,886

Cont. 5.48: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Other							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Chunya	874	189	125	49	999	238	235	418
Mbeya (R)	477	110	318	13	637	122	113	33
Kyela	12,076	3,881	25,507	6,096	36,341	9,977	6,075	27,081
Rungwe	6,530	2,138	17,958	3,482	23,672	5,620	2,713	13,581
Ileje	4,401	1,341	550	629	4,951	1,970	1,258	2,926
Mbozi	7,662	3,913	5,392	658	12,486	4,570	3,455	2,717
Mbarali	252	19	126	0	378	20	20	0
Mbeya Urban	340	12	604	73	906	84	16	918
Total	32,613	11602.5	50,580	10,999	80,371	22,602	13,885	47,674

ACCESS TO AGRICULTURAL EQUIPMENTS

6.1: Number of Agriculture Households that used Agricultural Equipment/Asset by type and District for 2007/08 Agriculture Year

District	Equipment/Asset Name												Total number of Agricultural Households
	Sword		Hand Hoe		Hand Sprayer		Grater, Chiper, Oil Press and Oil Mill		Oxplough		Oxplanter		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Chunya	47,832	36.5	49,456	37.7	4,871	3.7	250	0.2	7,993	6.1	874	0.7	50,580
Mbeya (R)	57,764	36.4	64,130	40.5	12,094	7.6	1,273	0.8	3,023	1.9	159	0.1	64,448
Kyela	37,357	29.1	42,210	32.9	6,659	5.2	1,467	1.1	13,318	10.4	113	0.1	45,709
Rungwe	79,384	43.9	81,833	45.3	10,000	5.5	612	0.3	1,837	1.0	0	0.0	82,649
Ileje	30,966	44.7	31,594	45.6	2,987	4.3	79	0.1	236	.3	0	0.0	31,830
Mbozi	98,187	31.4	113,794	36.4	22,702	7.3	2,554	0.8	19,013	6.1	1,419	0.5	114,929
Mbarali	48,319	33.9	49,707	34.9	5,046	3.5	757	0.5	12,364	8.7	252	0.2	51,095
Mbeya Urban	12,527	42.3	13,131	44.3	2,679	9.0	0	0.0	264	.9	0	0.0	13,584
Total	412,337	35.8	445,855	38.7	67,037	5.8	6,992	0.6	58,047	5.0	2,817	0.2	454,824

Cont. 6.1: Number of Agriculture Households that used Agricultural Equipment/Asset by type and District for 2007/08 agriculture year

District	Equipment/Asset Name												Total number of Agricultural Households
	Ox cart		Trekta		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Chunya	3,872	3.0	125	.1	0	.0	749	.6	6,744	5.1	3,747	2.9	50,580
Mbeya (R)	796	.5	159	.1	159	.1	637	.4	4,297	2.7	3,183	2.0	64,448
Kyela	113	.1	0	.0	113	.1	903	.7	11,963	9.3	5,982	4.7	45,709
Rungwe	408	.2	408	.2	204	.1	204	.1	1,429	.8	1,020	.6	82,649
Ileje	236	.3	0	.0	0	.0	0	.0	236	.3	943	1.4	31,830
Mbozi	5,959	1.9	568	.2	0	.0	1,135	.4	17,310	5.5	12,770	4.1	114,929
Mbarali	1,388	1.0	1,262	.9	126	.1	1,009	.7	9,336	6.6	5,677	4.0	51,095
Mbeya Urban	75	.3	0	.0	0	.0	0	.0	151	.5	189	.6	13,584
Total	12,847	1.1	2,521	.2	602	.1	4,637	.4	51,465	4.5	33,510	2.9	454,824

Cont. 6.1: Number of Agriculture Households that used Agricultural Equipment/Asset by type and District for 2007/08 agriculture year

District	Equipment/Asset Name										Total number of Agricultural Households
	Cow		Donkey		Thrasher		Power tiller		Rigder		
	Number	%	Number	%	Number	%	Number	%	Number	%	
Chunya	3,747	2.9	749	0.6	0	0.0	0	0.0	125	0.1	50,580
Mbeya (R)	8,593	5.4	2,069	1.3	159	0.1	0	0.0	0	0.0	64,448
Kyela	7,675	6.0	0	0.0	113	0.1	0	0.0	339	0.3	45,709
Rungwe	1,224	.7	408	0.2	612	0.3	612	0.3	612	0.3	82,649
Ileje	1,415	2.0	0	0.0	550	0.8	0	0.0	79	0.1	31,830
Mbozi	14,473	4.6	1,419	0.5	568	0.2	284	0.1	568	0.2	114,929
Mbarali	5,425	3.8	505	0.4	126	0.1	1,009	0.7	126	0.1	51,095
Mbeya Urban	377	1.3	75	0.3	75	0.3	38	0.1	38	0.1	13,584
Total	42,928	3.7	5,225	0.5	2,204	0.2	1,943	0.2	1,886	0.2	454,824

6.2: Number of Agricultural Equipment/Asset owned by type and District for 2007/08 agriculture year

District	Equipment/Asset Name											
	Sword		Hand Hoe		Hand Sprayer		Grater, Chiper, Oil Press and Oil Mill		Oxplough		Oxplanter	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	100,410	25.0	190,080	47.4	5,620	1.4	3,247	.8	13,238	3.3	3,747	.9
Mbeya (R)	125,395	31.9	182,363	46.4	14,003	3.6	4,933	1.3	6,683	1.7	3,501	.9
Kyela	85,774	28.9	109,475	36.9	7,223	2.4	1,467	.5	16,816	5.7	2,483	.8
Rungwe	182,849	40.2	200,808	44.1	11,632	2.6	816	.2	2,041	.4	.	.
Ileje	79,143	41.3	92,818	48.4	5,423	2.8	79	.0	2,594	1.4	.	.
Mbozi	192,117	25.8	346,207	46.5	28,661	3.8	3,689	.5	29,229	3.9	8,230	1.1
Mbarali	140,164	31.8	165,270	37.5	5,046	1.1	1,262	.3	18,798	4.3	3,280	.7
Mbeya Urban	31,734	40.5	33,960	43.3	3,396	4.3	.	.	2,226	2.8	.	.
Total	937,586	31.2	1,320,981	44.0	81,005	2.7	15,493	.5	91,625	3.1	21,240	.7

Cont. 6.2: Number of Agricultural Equipment/Asset owned by type and District for 2007/08 agriculture year

District	Equipment/Asset Name											
	Ox cart		Trekta		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	9,367	2.3	250	.1	.	.	2,248	.6	23,729	5.9	14,362	3.6
Mbeya (R)	955	.2	3,501	.9	3,501	.9	1,114	.3	9,707	2.5	9,230	2.3
Kyela	3,386	1.1	.	.	2,257	.8	1,467	.5	25,845	8.7	11,399	3.8
Rungwe	612	.1	1,224	.3	4,490	1.0	408	.1	2,857	.6	7,959	1.7
Ileje	1,965	1.0	314	.2	1,493	.8
Mbozi	5,959	.8	6,527	.9	.	.	2,270	.3	41,431	5.6	22,702	3.0
Mbarali	1,388	.3	2,776	.6	2,776	.6	5,551	1.3	37,848	8.6	14,256	3.2
Mbeya Urban	1,283	1.6	302	.4	1,132	1.4
Total	24,914	.8	14,277	.5	13,023	.4	13,059	.4	142,034	4.7	82,533	2.7

Cont. 6.2: Number of Agricultural Equipment/Asset owned by type and District for 2007/08 agriculture year

District	Equipment/Asset Name									
	Cow		Donkey		Thrasher		Power tiller		Rigder	
	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	29,973	7.5	4,621	1	0	0	0	0	125	0.0
Mbeya (R)	20,210	5.1	4,774	1	3,501	1	0	0	.	.
Kyela	18,848	6.3	0	0	7,900	3	0	0	2,483	0.8
Rungwe	6,938	1.5	4,694	1	9,183	2	9,387	2	9,387	2.1
Ileje	5,109	2.7	.	.	2,829	1	0	0	79	0.0
Mbozi	43,702	5.9	9,081	1	3,689	0	568	0	851	0.1
Mbarali	38,227	8.7	1,640	0	1,262	0	1,009	0	126	0.0
Mbeya Urban	981	1.3	75	0	1,660	2	830	1	830	1.1
Total	163,987	5.5	24,885	1	30,025	1	11,794	0	13,881	0.5

6.3: Number of Agricultural Households that Used Tractors/Draft Animals to cultivate Land by Type and District for 2007/08 agriculture year

District	Oxen		Bulls		Cows		Donkeys		Tractor		Power Tiller	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	21,231	43.7	5,870	12.1	19,857	40.9	874	1.8	.	.	749	1.5
Mbeya (R)	6,524	31.3	2,387	11.5	11,139	53.4	796	3.8
Kyela	26,409	55.2	7,562	15.8	13,656	28.5	226	.5
Rungwe	2,653	72.2	1,020	27.8
Ileje	157	7.1	707	32.1	1,336	60.7
Mbozi	42,566	49.3	17,027	19.7	18,162	21.1	8,513	9.9
Mbarali	37,343	53.8	8,579	12.4	20,816	30.0	1,766	2.5	505	.7	378	.5
Mbeya Urban	415	40.7	151	14.8	415	40.7	.	.	38	3.7	.	.
Total	137,300	49.1	43,303	15.5	85,382	30.5	12,175	4.4	542	.2	1,128	.4

6.4: Number of Tractors/Draft animals Owned by Type and District for 2007/08 Agriculture year

District	Oxen		Bulls		Cows		Donkeys		Tractor		Power Tiller	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	16,235	94.9	624	3.6	125	.7	125	.7	0	.0	0	.0
Mbeya (R)	5,092	72.7	637	9.1	796	11.4	318	4.5	159	2.3	0	.0
Kyela	30,360	85.4	4,176	11.7	564	1.6	226	.6	226	.6	0	.0
Rungwe	2,245	84.6	408	15.4	0	.0	0	.0	0	.0	0	.0
Ileje	79	11.1	393	55.6	236	33.3	0	.0	0	.0	0	.0
Mbozi	42,283	80.1	9,081	17.2	1,419	2.7	0	.0	0	.0	0	.0
Mbarali	24,727	75.4	1,892	5.8	126	.4	1,009	3.1	3,280	10.0	1,766	5.4
Mbeya Urban	226	35.3	189	29.4	38	5.9	75	11.8	113	17.6	0	.0
Total	121,247	81.2	17,400	11.7	3,303	2.2	1,754	1.2	3,778	2.5	1,766	1.2

IRRIGATION

6.5: Number of Agriculture Households reporting use of Irrigation during 2007/08 agricultural Year by District

District	Households practicing irrigation		Households not practicing irrigation		Total Number of Households	
	Number	%	Number	%	Number	%
Chunya	1,499	3.0	49,081	97.0	50,580	100.0
Mbeya (R)	4,297	6.7	60,151	93.3	64,448	100.0
Kyela	1,241	2.7	44,467	97.3	45,709	100.0
Rungwe	1,224	1.5	81,425	98.5	82,649	100.0
Ileje	3,379	10.6	28,451	89.4	31,830	100.0
Mbozi	11,351	9.9	103,578	90.1	114,929	100.0
Mbarali	23,214	45.4	27,881	54.6	51,095	100.0
Mbeya Urban	604	4.4	12,980	95.6	13,584	100.0
Total	46,809	10.3	408,015	89.7	454,824	100.0

6.6: Number of Agriculture Households using irrigation by Source of Irrigation Water by District during the 2007/08 agricultural Year

District	Main Source of Irrigation Water						Total
	River	Lake	Canal	Dam	Tap Water	Well	
Chunya	1,124	0	125	0	0	0	1,249
Mbeya (R)	1,432	0	159	0	1,910	0	3,501
Kyela	1,016	0	0	0	0	0	1,016
Rungwe	816	0	0	0	408	0	1,224
Ileje	3,065	0	79	79	79	0	3,301
Mbozi	2,554	284	1,703	0	6,527	0	11,067
Mbarali	12,742	0	0	0	10,345	126	23,214
Mbeya Urban	415	0	0	0	38	113	566
Total	23,165	284	2,065	79	19,306	239	45,138

6.7: Number of Agriculture Households by method of used to obtain water and District during 2007/08 agriculture year

District	Main method of Obtaining Water					Total
	Gravity	Hand bucket	Hand pump	Motor Pump	Other	
Chunya	874	125	250	0	0	1,249
Mbeya (R)	3,342	0	0	159	0	3,501
Kyela	903	113	0	0	0	1,016
Rungwe	816	408	0	0	0	1,224
Ileje	1,965	1,257	0	79	0	3,301
Mbozi	5,108	5,392	0	284	284	11,067
Mbarali	22,709	505	0	0	0	23,214
Mbeya Urban	377	151	0	0	38	566
Total	36,094	7,951	250	521	322	45,138

EROSION CONTROL

6.8: Number of Households with Soil Erosion Problem on the Farming Land By District

District	Have any erosion problem		Do not have any erosion problem		Total	
	Number	%	Number	%	Number	%
Chunya	5,495	10.9	45,085	89.1	50,580	100.00
Mbeya (R)	10,025	15.6	54,423	84.4	64,448	100.00
Kyela	1,241	2.7	44,467	97.3	45,709	100.00
Rungwe	11,428	13.8	71,221	86.2	82,649	100.00
Ileje	2,043	6.4	29,787	93.6	31,830	100.00
Mbozi	22,702	19.8	92,227	80.2	114,929	100.00
Mbarali	1,766	3.5	49,329	96.5	51,095	100.00
Mbeya Urban	1,962	14.4	11,622	85.6	13,584	100.00
Total	56,664	12.5	398,160	87.5	454,824	100.00

6.9: Number of Households with Erosion Control/Water Harvesting Facilities on their Land by District

District	Have any erosion control/water harvesting facilities		Do not have any erosion control/water harvesting facilities		Total	
	Number	%	Number	%	Number	%
Chunya	2,498	5	48,082	95	50,580	100
Mbeya (R)	7,638	12	56,810	88	64,448	100
Kyela	903	2	44,806	98	45,709	100
Rungwe	11,632	14	71,017	86	82,649	100
Ileje	3,222	10	28,608	90	31,830	100
Mbozi	14,189	12	100,741	88	114,929	100
Mbarali	1,135	2	49,960	98	51,095	100
Mbeya Urban	2,490	18	11,094	82	13,584	100
Total	43,708	10	411,116	90	454,824	100

6.10: Number of Erosion Control/Water Harvesting Structures by Type and District as of 2007/08 Agriculture Year

District	Terraces	Erosion Control Bunds	Gabions / Sandbag	Vetiver Grass	Tree Belts	Water Harvesting Bunds	Drainage Ditches	Others
Chunya	9,367	1,998	0	0	375	84,924	1,748	0
Mbeya (R)	5,092	9,389	796	2,864	318	637	4,615	3,819
Kyela	0	11,173	0	0	0	113	0	0
Rungwe	11,428	20,611	1,020	1,020	1,224	816	15,101	0
Ileje	13,046	22,556	0	1,572	0	865	9,353	24,207
Mbozi	7,662	26,107	0	568	2,838	11,635	5,392	0
Mbarali	1,262	2,271	0	505	0	1,135	0	0
Mbeya Urban	6,226	1,509	0	377	7,169	377	2,038	264
Total	54,083	95,615	1,816	6,906	11,924	100,502	38,246	28,290

AGRICULTURE CREDIT

7.1: Number of Agriculture Households receiving Credit by District During the 2007/08 Agriculture Year

District	Households Receiving Credit					
	borrowed money for agriculture		Did not borrow money for agriculture		Total	
	Number	%	Number	%	Number	%
Chunya	4,746	9.4	45,834	90.6	50,580	100.0
Mbeya (R)	2,228	3.5	62,220	96.5	64,448	100.0
Kyela	790	1.7	44,919	98.3	45,709	100.0
Rungwe	816	1.0	81,833	99.0	82,649	100.0
Ileje	393	1.2	31,437	98.8	31,830	100.0
Mbozi	1,703	1.5	113,227	98.5	114,929	100.0
Mbarali	4,668	9.1	46,427	90.9	51,095	100.0
Mbeya Urban	1,170	8.6	12,414	91.4	13,584	100.0
Total	16,513	3.6	438,311	96.4	454,824	100.0

7.2: Number of Credits by sex of the household Member receiving credit from source B and District During the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Chunya	4,246	89.5	500	10.5	4,746	100.0
Mbeya (R)	1,591	71.4	637	28.6	2,228	100.0
Kyela	677	85.7	113	14.3	790	100.0
Rungwe	612	75.0	204	25.0	816	100.0
Ileje	236	60.0	157	40.0	393	100.0
Mbozi	1,135	66.7	568	33.3	1,703	100.0
Mbarali	3,532	75.7	1,135	24.3	4,668	100.0
Mbeya Urban	717	61.3	453	38.7	1,170	100.0
Total	12,747	77.2	3,766	22.8	16,513	100.0

7.3: Number of Households receiving Credits by Main Source of credit and District During the 2007/08 Agriculture Year

District	Family, friend or relative		Bank		Cooperative		Savings & credit Soc		Trader/trade store		Private individual		NGO/Development project		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	250	5.3	125	2.6	3,747	78.9	125	2.6	0	0.0	250	5.3	0	0.0	250	5.3	4,746	100
Mbeya (R)	318	14.3	159	7.1	0	0.0	1,273	57.1	0	0.0	0	0.0	318	14.3	159	7.1	2,228	100
Kyela	113	14.3	0	0.0	0	0.0	226	28.6	0	0.0	339	42.9	113	14.3	0	0.0	790	100
Rungwe	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	816	100.0	0	0.0	816	100
Ileje	157	40.0	79	20.0	0	0.0	79	20.0	79	20.0	0	0.0	0	0.0	0	0.0	393	100
Mbozi	284	16.7	284	16.7	284	16.7	851	50.0	0	0.0	0	0.0	0	0.0	0	0.0	1,703	100
Mbarali	1,514	32.4	757	16.2	126	2.7	505	10.8	505	10.8	1,135	24.3	0	0.0	126	2.7	4,668	100
Mbeya Urb	679	58.1	0	0.0	38	3.2	340	29.0	38	3.2	38	3.2	38	3.2	0	0.0	1,170	100
Total	3,315	20.1	1,403	8.5	4,194	25.4	3,398	20.6	621	3.8	1,762	10.7	1,285	7.8	535	3.2	16,513	100

7.4: Number of Households Reporting the Main reasons for Not Using Credit by District During the 2007/08 Agriculture Year

District	Not needed		Not available		Did not want to go into debt		Interest rate/cost too high		Did not know how to get credit		Difficult bureaucratic procedure		Credit granted too late		Other (specify)		Dont know about credit		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	1,499	3.3	13,988	30.5	6,494	14.2	1,124	2.5	11,989	26.2	2,123	4.6	999	2.2	500	1.1	7,119	15.5	45,834	100
Mbeya (R)	3,660	5.9	10,662	17.1	15,117	24.3	3,978	6.4	15,277	24.6	1,432	2.3	318	0.5	796	1.3	10,980	17.6	62,220	100
Kyela	4,176	9.3	10,045	22.4	6,997	15.6	4,514	10.1	10,609	23.6	2,370	5.3	226	0.5	339	0.8	5,643	12.6	44,919	100
Rungwe	6,734	8.2	15,918	19.5	14,489	17.7	2,857	3.5	18,979	23.2	5,306	6.5	408	0.5	0	0.0	17,142	20.9	81,833	100
Ileje	2,122	6.7	12,575	40.0	5,109	16.2	707	2.2	5,266	16.7	707	2.2	157	0.5	236	0.7	4,558	14.5	31,437	100
Mbozi	9,365	8.3	11,351	10.0	22,986	20.3	6,811	6.0	33,769	29.8	9,932	8.8	1,419	1.3	1,135	1.0	16,459	14.5	113,227	100
Mbarali	4,289	9.2	5,299	11.4	18,167	39.1	3,785	8.2	6,056	13.0	4,289	9.2	1,766	3.8	252	0.5	2,523	5.4	46,427	100
Mbeya Urban	792	6.4	1,698	13.7	3,019	24.3	717	5.8	3,094	24.9	1,094	8.8	113	0.9	0	0.0	1,887	15.2	12,414	100
Total	32,63	7.4	81,534	18.6	92,378	21.1	24,493	5.6	105,038	24.0	27,254	6.2	5,407	1.2	3,257	0.7	66,311	15.1	438,311	100

7.5: Number of Households receiving Credits by Main Source of credit B and District During the 2007/08 Agriculture Year

District	Family, friend or relative		Bank		Cooperative		Savings & credit Soc		Trader/trade store		Private individual		NGO/Development project		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	125	4.2	0	0.0	2,872	95.8	0	0.0	0	0.0	0	0.0	0	0.0	2,997	100
Mbeya (R)	0	0.0	159	50.0	0	0.0	0	0.0	0	0.0	0	0.0	159	50.0	318	100
Kyela	0	0.0	113	33.3	0	0.0	113	33.3	0	0.0	113	33.3	0	0.0	339	100
Rungwe	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Ileje	0	0.0	79	50.0	0	0.0	79	50.0	0	0.0	0	0.0	0	0.0	157	100
Mbozi	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Mbarali	0	0.0	252	50.0	126	25.0	0	0.0	0	0.0	126	25.0	0	0.0	505	100
Mbeya Urb	226	28.6	0	0.0	0	0.0	528	66.7	0	0.0	38	4.8	0	0.0	792	100
Total	351	6.9	603	11.8	2,999	58.7	720	14.1	0	0.0	277	5.4	159	3.1	5,108	100

7.6: Number of Households receiving Credits by Main Source of credit C and District During the 2007/08 Agriculture Year

District	Family, friend or relative		Bank		Cooperative		Savings & credit Soc		Trader/trade store		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	0	0.0	0	0.0	2,748	100.0	0	0.0	0	0.0	0	0.0	2,748	100
Mbeya (R)	0	0.0	318	100.0	0	0.0	0	0.0	0	0.0	0	0.0	318	100
Kyela	0	0.0	113	50.0	0	0.0	0	0.0	113	50.0	0	0.0	226	100
Rungwe	0	0.0	612	100.0	0	0.0	0	0.0	0	0.0	0	0.0	612	100
Ileje	79	50.0	79	50.0	0	0.0	0	0.0	0	0.0	0	0.0	157	100
Mbozi	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Mbarali	0	0.0	0	0.0	0	0.0	126	100.0	0	0.0	0	0.0	126	100
Mbeya Urb	38	11.1	113	33.3	38	11.1	0	0.0	0	0.0	151	44.4	340	100
Total	116	2.6	1,235	27.3	2,785	61.5	126	2.8	113	2.5	151	3.3	4,527	100

7.7: Provision of credit A by Sex and District during the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Chunya	4,246	89	500	11	4,746	100
Mbeya (R)	1,591	71	637	29	2,228	100
Kyela	677	86	113	14	790	100
Rungwe	612	75	204	25	816	100
Ileje	236	60	157	40	393	100
Mbozi	1,135	67	568	33	1,703	100
Mbarali	3,532	76	1,135	24	4,668	100
Mbeya Urban	717	61	453	39	1,170	100
Total	12,747	77	3,766	23	16,513	100

7.8: Provision of credit B by Sex and District during the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Chunya	2,498	87	375	13	2,872	100
Mbeya (R)	159	50	159	50	318	100
Kyela	226	100	0	0	226	100
Rungwe	0	0	0	0	0	0
Ileje	157	100	0	0	157	100
Mbozi	0	0	0	0	0	0
Mbarali	378	75	126	25	505	100
Mbeya Urban	641	81	151	19	792	100
Total	4,060	83	811	17	4,871	100

7.9: Provision of credit C by Sex and District during the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Chunya	2,373	86	375	14	2,748	100
Mbeya (R)	159	100	0	0	159	100
Kyela	226	100	0	0	226	100
Rungwe	0	0	204	100	204	100
Ileje	79	50	79	50	157	100
Mbozi	284	100	0	0	284	100
Mbarali	126	100	0	0	126	100
Mbeya Urban	113	50	113	50	226	100
Total	3,359	81	771	19	4,130	100

CROP EXTENSION SERVICE

8.1: Number of Agriculture Households that received Crop Advice during the 2007/08 Agriculture Year

District	Households that received Crop Advices		Households that did NOT receive Crop advices		Crop Growing Households
	Number	%	Number	%	
Chunya	2,373	4.7	48,207	95.3	50,580
Mbeya (R)	1,114	1.7	63,334	98.3	64,448
Kyela	0	.0	45,709	100.0	45,709
Rungwe	5,918	7.2	76,731	92.8	82,649
Ileje	472	1.5	31,359	98.5	31,830
Mbozi	5,959	5.2	108,970	94.8	114,929
Mbarali	252	.5	50,843	99.5	51,095
Mbeya Urban	113	.8	13,471	99.2	13,584
Total	16,201	3.6	438,623	96.4	454,824

8.2: Number of Agriculture Households Participated in Out Grower Agreement during the 2007/08 Agriculture Year

District	Number of Households Participated in Out Grower Agreement		Number of Households NOT Participated in Out Grower Agreement		Total Number of Households	
	Number	%	Number	%	Number	%
Chunya	2,373	4.7	48,207	95.3	50,580	100
Mbeya (R)	1,114	1.7	63,334	98.3	64,448	100
Kyela	0	0.0	45,709	100.0	45,709	100
Rungwe	5,918	7.2	76,731	92.8	82,649	100
Ileje	472	1.5	31,359	98.5	31,830	100
Mbozi	5,959	5.2	108,970	94.8	114,929	100
Mbarali	252	0.5	50,843	99.5	51,095	100
Mbeya Urban	113	0.8	13,471	99.2	13,584	100
Total	16,201	3.6	438,623	96.4	454,824	100

**8.3: Number of Agriculture Households Participated in Contract
Production Agreement during the 2007/08 Agriculture Year**

District	Number of Hholds Participated in Production Agreement		Number of Hholds NOT Participated in Production Agreement		Total Number of Households	
	Number	%	Number	%	Number	%
Chunya	6,494	12.8	44,086	87.2	50,580	100
Mbeya (R)	159	0.2	64,289	99.8	64,448	100
Kyela	226	0.5	45,483	99.5	45,709	100
Rungwe	408	0.5	82,241	99.5	82,649	100
Ileje	472	1.5	31,359	98.5	31,830	100
Mbozi	0	0.0	114,929	100.0	114,929	100
Mbarali	378	0.7	50,716	99.3	51,095	100
Mbeya Urban	113	0.8	13,471	99.2	13,584	100
Total	8,250	1.8	446,574	98.2	454,824	100

8.4: Number of Agriculture Households By Source of Extension Messages By District during the 2007/08 Agriculture Year

District	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		Total Households that received advices
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Chunya	34,469	87.9	3,996	10.2	1,249	3.2	5,745	14.6	6,120	15.6	6,994	17.8	749	1.9	39,215
Mbeya (R)	34,372	68.6	4,615	9.2	1,591	3.2	1,273	2.5	7,320	14.6	20,846	41.6	2,864	5.7	50,126
Kyela	31,037	90.8	1,693	5.0	113	0.3	339	1.0	4,063	11.9	6,320	18.5	339	1.0	34,197
Rungwe	72,242	93.7	4,694	6.1	1,837	2.4	408	0.5	13,061	16.9	22,040	28.6	4,694	6.1	77,140
Ileje	25,307	92.3	4,401	16.0	1,336	4.9	943	3.4	3,694	13.5	6,838	24.9	943	3.4	27,429
Mbozi	63,282	75.6	8,797	10.5	1,703	2.0	3,405	4.1	15,891	19.0	38,877	46.4	2,838	3.4	83,714
Mbarali	29,143	88.5	8,074	24.5	8,831	26.8	5,551	16.9	8,957	27.2	9,084	27.6	0	0.0	32,928
Mbeya Urban	6,000	61.6	1,019	10.5	0	0.0	1,207	12.4	2,151	22.1	5,434	55.8	1,057	10.9	9,735
Total	295,851	83.5	37,289	10.5	16,660	4.7	18,872	5.3	61,257	17.3	116,432	32.8	13,483	3.8	354,483

8.5: Number of households receiving extension advice on Spacing by district during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Chunya	26,476	82.2	1,249	3.9	250	0.8	1,624	5.0	1,374	4.3	1,124	3.5	125	0.4	32,221
Mbeya (R)	26,893	79.3	1,114	3.3	318	0.9	477	1.4	955	2.8	4,137	12.2	0	0.0	33,895
Kyela	18,848	90.8	0	0.0	0	0.0	113	0.5	451	2.2	1,354	6.5	0	0.0	20,766
Rungwe	57,344	81.0	204	0.3	0	0.0	0	0.0	4,898	6.9	7,347	10.4	1,020	1.4	70,813
Ileje	19,255	84.2	1,179	5.2	393	1.7	79	0.3	472	2.1	1,493	6.5	0	0.0	22,870
Mbozi	44,553	63.6	1,703	2.4	568	0.8	851	1.2	2,838	4.0	18,729	26.7	851	1.2	70,093
Mbarali	20,312	76.7	505	1.9	505	1.9	1,766	6.7	505	1.9	2,902	11.0	0	0.0	26,494
Mbeya Urban	4,415	54.2	226	2.8	0	0.0	189	2.3	491	6.0	2,566	31.5	264	3.2	8,150
Total	218,096	76.4	6,179	2.2	2,033	0.7	5,099	1.8	11,982	4.2	39,652	13.9	2,261	0.8	285,303

8.6: Number of households receiving extension advice on Use of Agrochemicals by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Chunya	18,234	81.6	1,624	7.3	0	0.0	1,499	6.7	375	1.7	624	2.8	0	0.0	22,355
Mbeya (R)	19,414	69.7	477	1.7	318	1.1	477	1.7	1,432	5.1	4,933	17.7	796	2.9	27,848
Kyela	16,252	79.1	1,129	5.5	0	0.0	113	0.5	1,129	5.5	1,919	9.3	0	0.0	20,541
Rungwe	42,447	86.7	408	0.8	408	0.8	204	0.4	2,041	4.2	3,469	7.1	0	0.0	48,977
Ileje	11,396	73.2	1,100	7.1	393	2.5	236	1.5	393	2.5	1,965	12.6	79	0.5	15,561
Mbozi	34,621	65.2	3,122	5.9	568	1.1	284	0.5	2,838	5.3	11,067	20.9	568	1.1	53,066
Mbarali	10,345	61.7	1,135	6.8	1,135	6.8	1,388	8.3	1,514	9.0	1,262	7.5	0	0.0	16,779
Mbeya Urban	4,037	60.5	226	3.4	0	0.0	189	2.8	302	4.5	1,773	26.6	151	2.3	6,679
Total	156,746	74.0	9,221	4.4	2,822	1.3	4,389	2.1	10,023	4.7	27,013	12.8	1,593	0.8	211,807

8.7: Number of households receiving extension advice on Erosion Control by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Chunya	13,613	81.3	624	3.7	250	1.5	1,249	7.5	624	3.7	375	2.2	0	0.0	16,735
Mbeya (R)	13,208	74.8	0	0.0	159	0.9	318	1.8	637	3.6	3,183	18.0	159	0.9	17,663
Kyela	8,239	90.1	226	2.5	0	0.0	0	0.0	564	6.2	113	1.2	0	0.0	9,142
Rungwe	31,019	91.0	408	1.2	0	0.0	0	0.0	612	1.8	1,429	4.2	612	1.8	34,080
Ileje	14,618	80.9	629	3.5	157	0.9	157	0.9	472	2.6	1,572	8.7	472	2.6	18,076
Mbozi	21,851	66.4	1,703	5.2	284	0.9	0	0.0	3,405	10.3	5,392	16.4	284	0.9	32,918
Mbarali	2,523	55.6	126	2.8	252	5.6	126	2.8	1,009	22.2	505	11.1	0	0.0	4,542
Mbeya Urban	3,056	61.8	113	2.3	0	0.0	151	3.1	189	3.8	1,283	26.0	151	3.1	4,943
Total	108,127	78.3	3,829	2.8	1,102	0.8	2,001	1.4	7,512	5.4	13,850	10.0	1,678	1.2	138,100

8.8: Number of households receiving extension advice on Organic Fertilizer use by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Chunya	16,235	78.3	749	3.6	375	1.8	1,374	6.6	624	3.0	1,249	6.0	125	0.6	20,731
Mbeya (R)	16,231	64.6	477	1.9	159	0.6	159	0.6	1,432	5.7	6,524	25.9	159	0.6	25,143
Kyela	13,205	76.5	677	3.9	0	0.0	0	0.0	1,693	9.8	1,693	9.8	0	0.0	17,268
Rungwe	43,672	75.4	1,020	1.8	0	0.0	0	0.0	2,449	4.2	9,795	16.9	1,020	1.8	57,957
Ileje	14,382	76.6	1,179	6.3	393	2.1	236	1.3	550	2.9	1,965	10.5	79	0.4	18,784
Mbozi	23,553	55.0	1,986	4.6	0	0.0	284	0.7	4,257	9.9	12,202	28.5	568	1.3	42,850
Mbarali	6,687	54.1	1,009	8.2	505	4.1	1,135	9.2	757	6.1	2,271	18.4	0	0.0	12,364
Mbeya Urban	3,170	54.9	264	4.6	0	0.0	302	5.2	415	7.2	1,434	24.8	189	3.3	5,773
Total	137,135	68.3	7,363	3.7	1,431	0.7	3,490	1.7	12,177	6.1	37,134	18.5	2,139	1.1	200,869

8.9: Number of households receiving extension advice on use of Inorganic Fertilizer by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Chunya	17,235	78.4	1,499	6.8	125	0.6	749	3.4	749	3.4	1,624	7.4	0	0.0	21,980
Mbeya (R)	21,005	72.1	318	1.1	318	1.1	477	1.6	1,273	4.4	5,092	17.5	637	2.2	29,121
Kyela	15,010	85.8	339	1.9	0	0.0	0	0.0	790	4.5	1,354	7.7	0	0.0	17,493
Rungwe	48,365	86.2	204	0.4	1,429	2.5	0	0.0	1,224	2.2	4,694	8.4	204	0.4	56,120
Ileje	18,312	84.1	550	2.5	236	1.1	157	0.7	707	3.2	1,729	7.9	79	0.4	21,770
Mbozi	39,729	64.2	1,986	3.2	284	0.5	284	0.5	3,405	5.5	15,608	25.2	568	0.9	61,863
Mbarali	15,265	73.8	631	3.0	1,262	6.1	252	1.2	2,523	12.2	757	3.7	0	0.0	20,690
Mbeya Urban	4,151	54.5	226	3.0	0	0.0	302	4.0	453	5.9	2,226	29.2	264	3.5	7,622
Total	179,072	75.7	5,753	2.4	3,653	1.5	2,222	0.9	11,125	4.7	33,084	14.0	1,751	0.7	236,661

8.10: Number of households receiving extension advice on Use of Improved Seeds by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Chunya	24,478	78.7	1,873	6.0	250	0.8	749	2.4	1,624	5.2	1,998	6.4	125	0.4	31,097
Mbeya (R)	21,164	78.7	159	0.6	318	1.2	477	1.8	796	3.0	3,819	14.2	159	0.6	26,893
Kyela	13,430	82.6	226	1.4	113	0.7	113	0.7	1,129	6.9	1,241	7.6	0	0.0	16,252
Rungwe	49,386	84.0	408	0.7	204	0.3	204	0.3	2,041	3.5	6,326	10.8	204	0.3	58,773
Ileje	15,797	82.7	314	1.6	236	1.2	79	0.4	865	4.5	1,729	9.1	79	0.4	19,098
Mbozi	43,985	70.5	3,405	5.5	0	0.0	284	0.5	6,527	10.5	7,662	12.3	568	0.9	62,431
Mbarali	15,013	64.3	2,776	11.9	1,640	7.0	883	3.8	1,892	8.1	1,135	4.9	0	0.0	23,340
Mbeya Urban	4,188	55.0	226	3.0	0	0.0	189	2.5	679	8.9	2,000	26.2	340	4.5	7,622
Total	187,442	76.3	9,388	3.8	2,761	1.1	2,978	1.2	15,552	6.3	25,911	10.6	1,474	0.6	245,506

8.11: Number of households receiving extension advice on Use of Mechanization by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Chunya	19,233	84.2	749	3.3	0	.0	749	3.3	874	3.8	1,249	5.5	0	.0	22,855
Mbeya (R)	11,298	75.5	477	3.2	159	1.1	159	1.1	1,114	7.4	1,750	11.7	0	.0	14,958
Kyela	11,850	76.1	113	.7	0	.0	226	1.4	790	5.1	2,596	16.7	0	.0	15,575
Rungwe	25,305	92.5	408	1.5	0	.0	0	.0	1,020	3.7	612	2.2	0	.0	27,346
Ileje	7,702	76.6	79	.8	157	1.6	79	.8	314	3.1	1,650	16.4	79	.8	10,060
Mbozi	26,391	62.0	3,405	8.0	0	.0	851	2.0	4,824	11.3	6,811	16.0	284	.7	42,566
Mbarali	12,616	66.2	1,892	9.9	2,271	11.9	126	.7	1,514	7.9	631	3.3	0	.0	19,050
Mbeya Urban	2,943	59.5	151	3.1	0	.0	113	2.3	792	16.0	830	16.8	113	2.3	4,943
Total	117,339	74.6	7,275	4.6	2,587	1.6	2,303	1.5	11,243	7.1	16,129	10.3	476	.3	157,353

8.12: Number of households receiving extension advice on Use of Irrigation Technology by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Chunya	11,615	86.9	125	.9	0	.0	999	7.5	0	.0	624	4.7	0	.0	13,363
Mbeya (R)	4,137	66.7	0	.0	0	.0	159	2.6	796	12.8	796	12.8	318	5.1	6,206
Kyela	3,950	77.8	0	.0	0	.0	113	2.2	903	17.8	113	2.2	0	.0	5,079
Rungwe	14,489	88.8	816	5.0	0	.0	0	.0	612	3.8	204	1.3	204	1.3	16,326
Ileje	7,388	76.4	157	1.6	79	.8	79	.8	550	5.7	1,415	14.6	0	.0	9,667
Mbozi	7,094	50.0	1,419	10.0	0	.0	851	6.0	1,703	12.0	3,122	22.0	0	.0	14,189
Mbarali	13,247	66.9	1,135	5.7	3,280	16.6	126	.6	378	1.9	1,640	8.3	0	.0	19,807
Mbeya Urban	2,151	65.5	151	4.6	0	.0	226	6.9	377	11.5	264	8.0	113	3.4	3,283
Total	64,071	72.9	3,804	4.3	3,359	3.8	2,554	2.9	5,319	6.1	8,177	9.3	636	.7	87,919

AGRICULTURE CONSTRAINTS

**9.1: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08
Agricultural Year**

District	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
	Number	%	Number	%	Number	%	Number	%
Chunya	4,371	8.6	999	2.0	14,612	28.9	874	1.7
Mbeya (R)	10,343	16.0	637	1.0	8,275	12.8	2,387	3.7
Kyela	13,430	29.4	1,919	4.2	11,850	25.9	2,483	5.4
Rungwe	8,571	10.4	816	1.0	14,693	17.8	5,918	7.2
Ileje	6,052	19.0	1,022	3.2	4,794	15.1	3,065	9.6
Mbozi	9,648	8.4	3,405	3.0	19,013	16.5	5,108	4.4
Mbarali	7,948	15.6	1,388	2.7	14,130	27.7	2,145	4.2
Mbeya Urban	2,339	17.2	189	1.4	1,887	13.9	792	5.8
Total	62,704	13.8	10,374	2.3	89,254	19.6	22,772	5.0

**Cont.9.1: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08
Agricultural Year**

District	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
	Number	%	Number	%	Number	%	Number	%
Chunya	4,871	9.6	375	.7	624	1.2	7,119	14.1
Mbeya (R)	2,069	3.2	318	.5	1,114	1.7	24,029	37.3
Kyela	1,354	3.0	113	.2	339	.7	6,659	14.6
Rungwe	3,265	4.0	0	.0	1,633	2.0	24,285	29.4
Ileje	1,257	4.0	314	1.0	786	2.5	8,802	27.7
Mbozi	2,554	2.2	284	.2	284	.2	49,661	43.2
Mbarali	2,019	4.0	1,766	3.5	126	.2	4,920	9.6
Mbeya Urban	302	2.2	113	.8	151	1.1	5,622	41.4
Total	17,691	3.9	3,283	.7	5,056	1.1	131,097	28.8

Cont.9.1: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
	Number	%	Number	%	Number	%	Number	%
Chunya	3,372	6.7	0	.0	0	.0	874	1.7
Mbeya (R)	2,387	3.7	0	.0	0	.0	8,911	13.8
Kyela	339	.7	0	.0	0	.0	113	.2
Rungwe	2,449	3.0	0	.0	0	.0	1,224	1.5
Ileje	1,022	3.2	0	.0	0	.0	0	.0
Mbozi	3,405	3.0	0	.0	0	.0	568	.5
Mbarali	1,388	2.7	126	.2	0	.0	2,902	5.7
Mbeya Urban	528	3.9	0	.0	38	.3	151	1.1
Total	14,889	3.3	126	.0	38	.0	14,743	3.2

Cont.9.1: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
	Number	%	Number	%	Number	%	Number	%
Chunya	3,747	7.4	749	1.5	250	.5	0	.0
Mbeya (R)	1,750	2.7	318	.5	0	.0	0	.0
Kyela	2,709	5.9	564	1.2	113	.2	113	.2
Rungwe	10,000	12.1	1,633	2.0	204	.2	0	.0
Ileje	2,122	6.7	236	.7	0	.0	0	.0
Mbozi	9,648	8.4	3,405	3.0	0	.0	0	.0
Mbarali	4,037	7.9	2,776	5.4	0	.0	0	.0
Mbeya Urban	717	5.3	151	1.1	0	.0	0	.0
Total	34,730	7.6	9,832	2.2	567	.1	113	.0

Cont.9.1: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	Number	%	Number	%	Number	%	Number	%
Chunya	125	.2	125	.2	500	1.0	500	1.0
Mbeya (R)	0	.0	0	.0	477	.7	318	.5
Kyela	226	.5	0	.0	0	.0	0	.0
Rungwe	0	.0	0	.0	204	.2	612	.7
Ileje	157	.5	157	.5	943	3.0	393	1.2
Mbozi	284	.2	284	.2	284	.2	851	.7
Mbarali	631	1.2	0	.0	126	.2	505	1.0
Mbeya Urban	0	.0	0	.0	38	.3	226	1.7
Total	1,422	.3	566	.1	2,572	.6	3,405	.7

Cont.9.1: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Destruction by Animals		Stealing		Pest and Disease		Local	Government
	Number	%	Number	%	Number	%	Taxation	
Chunya	1,249	2.5	375	.7	2,623	5.2	125	.2
Mbeya (R)	0	.0	0	.0	1,114	1.7	0	.0
Kyela	339	.7	113	.2	2,709	5.9	0	.0
Rungwe	408	.5	0	.0	6,122	7.4	0	.0
Ileje	0	.0	0	.0	550	1.7	0	.0
Mbozi	284	.2	284	.2	2,270	2.0	568	.5
Mbarali	631	1.2	378	.7	252	.5	378	.7
Mbeya Urban	38	.3	75	.6	189	1.4	0	.0
Total	2,948	.6	1,225	.3	15,829	3.5	1,071	.2

Cont.9.1: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%
Chunya	624	1.2	1,499	3.0	50,580	100.0
Mbeya (R)	0	.0	0	.0	64,448	100.0
Kyela	113	.2	113	.2	45,709	100.0
Rungwe	612	.7	0	.0	82,649	100.0
Ileje	157	.5	0	.0	31,830	100.0
Mbozi	568	.5	2,270	2.0	114,929	100.0
Mbarali	757	1.5	1,766	3.5	51,095	100.0
Mbeya Urban	38	.3	0	.0	13,584	100.0
Total	2,869	.6	5,648	1.2	454,824	100.0

9.2: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
	Number	%	Number	%	Number	%	Number	%
Chunya	1,374	2.7	500	1.0	9,117	18.0	2,623	5.2
Mbeya (R)	5,410	8.4	3,342	5.2	8,752	13.6	5,251	8.1
Kyela	2,709	5.9	2,934	6.4	10,157	22.2	3,160	6.9
Rungwe	2,653	3.2	1,429	1.7	11,020	13.3	5,510	6.7
Ileje	865	2.7	1,336	4.2	5,737	18.0	6,287	19.8
Mbozi	6,811	5.9	3,689	3.2	19,013	16.5	10,500	9.1
Mbarali	4,416	8.6	2,019	4.0	8,327	16.3	1,892	3.7
Mbeya Urban	1,057	7.8	302	2.2	2,113	15.6	1,924	14.2
Total	25,293	5.6	15,550	3.4	74,236	16.3	37,148	8.2

Cont. 9.2: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
	Number	%	Number	%	Number	%	Number	%
Chunya	10,740	21.2	749	1.5	2,623	5.2	4,996	9.9
Mbeya (R)	6,365	9.9	318	.5	3,660	5.7	12,253	19.0
Kyela	2,596	5.7	339	.7	1,580	3.4	9,819	21.4
Rungwe	8,979	10.9	1,633	2.0	5,102	6.2	23,672	28.6
Ileje	3,694	11.6	314	1.0	1,650	5.2	6,130	19.3
Mbozi	8,513	7.4	568	.5	1,986	1.7	19,297	16.8
Mbarali	2,649	5.2	2,776	5.4	1,514	3.0	10,471	20.5
Mbeya Urban	1,434	10.6	226	1.7	566	4.2	2,830	20.8
Total	44,971	9.9	6,923	1.5	18,681	4.1	89,468	19.7

Cont. 9.2: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
	Number	%	Number	%	Number	%	Number	%
Chunya	2,123	4.2	125	.2	0	.0	749	1.5
Mbeya (R)	6,365	9.9	477	.7	0	.0	2,387	3.7
Kyela	2,370	5.2	113	.2	0	.0	226	.5
Rungwe	3,061	3.7	204	.2	0	.0	1,020	1.2
Ileje	1,257	4.0	0	.0	0	.0	79	.2
Mbozi	13,621	11.9	0	.0	0	.0	851	.7
Mbarali	3,154	6.2	0	.0	0	.0	1,640	3.2
Mbeya Urban	830	6.1	0	.0	38	.3	340	2.5
Total	32,782	7.2	919	.2	38	.0	7,292	1.6

Cont. 9.2: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
	Number	%	Number	%	Number	%	Number	%
Chunya	4,871	9.6	1,249	2.5	0	.0	0	.0
Mbeya (R)	4,615	7.2	1,273	2.0	0	.0	0	.0
Kyela	4,289	9.4	1,241	2.7	677	1.5	113	.2
Rungwe	7,143	8.6	1,837	2.2	0	.0	0	.0
Ileje	1,415	4.4	236	.7	0	.0	0	.0
Mbozi	8,797	7.7	4,540	4.0	568	.5	0	.0
Mbarali	2,902	5.7	1,766	3.5	505	1.0	126	.2
Mbeya Urban	491	3.6	226	1.7	0	.0	0	.0
Total	34,521	7.6	12,369	2.7	1,749	.4	239	.1

Cont. 9.2: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Costs	Transport
	Number	%	Number	%	Number	%	Number	%
Chunya	125	.2	125	.2	1,249	2.5	874	1.7
Mbeya (R)	0	.0	159	.2	796	1.2	159	.2
Kyela	677	1.5	113	.2	339	.7	113	.2
Rungwe	1,020	1.2	0	.0	816	1.0	816	1.0
Ileje	157	.5	236	.7	629	2.0	943	3.0
Mbozi	1,419	1.2	284	.2	4,824	4.2	851	.7
Mbarali	757	1.5	0	.0	1,640	3.2	883	1.7
Mbeya Urban	264	1.9	0	.0	189	1.4	264	1.9
Total	4,420	1.0	916	.2	10,481	2.3	4,904	1.1

Cont. 9.2: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
	Number	%	Number	%	Number	%	Number	%
Chunya	1,873	3.7	375	.7	1,374	2.7	250	.5
Mbeya (R)	0	.0	318	.5	2,387	3.7	0	.0
Kyela	451	1.0	451	1.0	1,241	2.7	0	.0
Rungwe	204	.2	408	.5	5,918	7.2	0	.0
Ileje	236	.7	0	.0	472	1.5	0	.0
Mbozi	284	.2	851	.7	4,540	4.0	284	.2
Mbarali	505	1.0	883	1.7	252	.5	378	.7
Mbeya Urban	38	.3	151	1.1	226	1.7	0	.0
Total	3,591	.8	3,438	.8	16,411	3.6	912	.2

Cont. 9.2: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%
Chunya	874	1.7	1,624	3.2	50,580	100.0
Mbeya (R)	0	.0	159	.2	64,448	100.0
Kyela	113	.2	0	.0	45,821	100.0
Rungwe	204	.2	0	.0	82,649	100.0
Ileje	0	.0	157	.5	31,830	100.0
Mbozi	1,419	1.2	1,419	1.2	114,929	100.0
Mbarali	631	1.2	1,009	2.0	51,095	100.0
Mbeya Urban	38	.3	38	.3	13,584	100.0
Total	3,279	.7	4,406	1.0	454,937	100.0

9.3: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
	Number	%	Number	%	Number	%	Number	%
Chunya	874	1.7	375	.7	6,619	13.1	624	1.2
Mbeya (R)	4,615	7.2	318	.5	9,548	14.8	5,570	8.6
Kyela	1,129	2.5	339	.7	6,659	14.6	1,129	2.5
Rungwe	2,449	3.0	612	.7	7,347	8.9	4,490	5.4
Ileje	629	2.0	393	1.2	3,772	11.9	3,851	12.1
Mbozi	5,392	4.7	3,689	3.2	12,770	11.1	7,662	6.7
Mbarali	1,640	3.2	631	1.2	5,425	10.6	1,892	3.7
Mbeya Urban	1,245	9.2	226	1.7	1,283	9.4	1,585	11.7
Total	17,972	4.0	6,583	1.4	53,423	11.7	26,802	5.9

Cont. 9.3: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
	Number	%	Number	%	Number	%	Number	%
Chunya	6,744	13.3	1,124	2.2	4,371	8.6	6,994	13.8
Mbeya (R)	4,456	6.9	637	1.0	5,570	8.6	8,275	12.8
Kyela	3,386	7.4	564	1.2	1,919	4.2	9,142	20.0
Rungwe	10,000	12.1	1,020	1.2	5,306	6.4	14,489	17.5
Ileje	5,187	16.3	865	2.7	1,965	6.2	5,266	16.5
Mbozi	6,243	5.4	1,135	1.0	4,257	3.7	13,054	11.4
Mbarali	1,766	3.5	3,280	6.4	1,262	2.5	9,841	19.3
Mbeya Urban	1,094	8.1	113	.8	453	3.3	1,962	14.4
Total	38,876	8.5	8,738	1.9	25,101	5.5	69,021	15.2

Cont. 9.3: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Extension Services		Access to Forest Resources		Access to Potable Water		Access to Credit	
	Number	%	Number	%	Number	%	Number	%
Chunya	3,122	6.2	0	.0	749	1.5	7,618	15.1
Mbeya (R)	6,365	9.9	955	1.5	2,228	3.5	4,774	7.4
Kyela	3,724	8.2	113	.2	451	1.0	6,546	14.4
Rungwe	4,490	5.4	0	.0	2,245	2.7	14,897	18.0
Ileje	2,436	7.7	79	.2	0	.0	2,279	7.2
Mbozi	11,351	9.9	0	.0	2,838	2.5	15,324	13.3
Mbarali	3,406	6.7	126	.2	2,397	4.7	5,425	10.6
Mbeya Urban	1,509	11.1	113	.8	302	2.2	1,170	8.6
Total	36,405	8.0	1,386	.3	11,210	2.5	58,033	12.8

Cont. 9.3: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Off Farm Income		Threshing		Harvesting		Crop Storage	
	Number	%	Number	%	Number	%	Number	%
Chunya	1,499	3.0	125	.2	0	.0	500	1.0
Mbeya (R)	3,501	5.4	0	.0	0	.0	159	.2
Kyela	2,144	4.7	339	.7	0	.0	339	.7
Rungwe	1,633	2.0	1,224	1.5	0	.0	816	1.0
Ileje	707	2.2	79	.2	0	.0	865	2.7
Mbozi	6,527	5.7	284	.2	568	.5	1,135	1.0
Mbarali	2,019	4.0	631	1.2	0	.0	1,009	2.0
Mbeya Urban	981	7.2	0	.0	0	.0	189	1.4
Total	19,010	4.2	2,681	.6	568	.1	5,011	1.1

Cont. 9.3: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Crop Processing		Marketing Information		Higher Transport Costs		Destruction by Animals	
	Number	%	Number	%	Number	%	Number	%
Chunya	375	.7	500	1.0	999	2.0	1,249	2.5
Mbeya (R)	159	.2	1,273	2.0	477	.7	796	1.2
Kyela	113	.2	1,693	3.7	113	.2	1,129	2.5
Rungwe	0	.0	1,837	2.2	816	1.0	408	.5
Ileje	157	.5	865	2.7	314	1.0	236	.7
Mbozi	0	.0	7,946	6.9	2,554	2.2	0	.0
Mbarali	378	.7	2,397	4.7	1,009	2.0	378	.7
Mbeya Urban	0	.0	226	1.7	415	3.1	0	.0
Total	1,182	.3	16,736	3.7	6,698	1.5	4,196	.9

Cont. 9.3: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Stealing		Pest and Disease		Local Government Taxation		Extended dry spell	
	Number	%	Number	%	Number	%	Number	%
Chunya	749	1.5	1,624	3.2	500	1.0	1,249	2.5
Mbeya (R)	477	.7	3,819	5.9	0	.0	318	.5
Kyela	564	1.2	3,837	8.4	113	.2	0	.0
Rungwe	408	.5	7,959	9.6	0	.0	204	.2
Ileje	236	.7	1,415	4.4	157	.5	79	.2
Mbozi	568	.5	7,662	6.7	0	.0	3,122	2.7
Mbarali	1,262	2.5	2,019	4.0	252	.5	1,892	3.7
Mbeya Urban	302	2.2	415	3.1	0	.0	0	.0
Total	4,566	1.0	28,749	6.3	1,022	.2	6,864	1.5

Cont. 9.3: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint			
	Crop Farmers/Livestock keepers		Total	
	Conflicts			
	Number	%	Number	%
Chunya	1,998	4.0	50,580	100.0
Mbeya (R)	159	.2	64,448	100.0
Kyela	113	.2	45,596	100.0
Rungwe	0	.0	82,649	100.0
Ileje	0	.0	31,830	100.0
Mbozi	851	.7	114,929	100.0
Mbarali	757	1.5	51,095	100.0
Mbeya Urban	0	.0	13,584	100.0
Total	3,878	.9	454,711	100.0

9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
	Number	%	Number	%	Number	%	Number	%
Chunya	624	1.2	250	.5	4,371	8.6	1,873	3.7
Mbeya (R)	4,297	6.7	1,114	1.7	6,524	10.1	2,864	4.4
Kyela	1,129	2.5	451	1.0	2,934	6.4	1,354	3.0
Rungwe	4,081	4.9	1,224	1.5	7,959	9.6	5,306	6.4
Ileje	786	2.5	157	.5	2,751	8.6	3,537	11.1
Mbozi	5,108	4.4	2,554	2.2	10,784	9.4	7,094	6.2
Mbarali	883	1.7	757	1.5	2,902	5.7	1,766	3.5
Mbeya Urban	491	3.6	189	1.4	1,623	11.9	755	5.6
Total	17,399	3.8	6,696	1.5	39,847	8.8	24,550	5.4

Cont. 9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
	Number	%	Number	%	Number	%	Number	%
Chunya	3,622	7.2	999	2.0	3,996	7.9	5,620	11.1
Mbeya (R)	6,683	10.4	637	1.0	3,819	5.9	5,729	8.9
Kyela	2,709	5.9	339	.7	1,806	4.0	5,530	12.1
Rungwe	7,347	8.9	1,429	1.7	4,490	5.4	5,510	6.7
Ileje	1,965	6.2	314	1.0	1,493	4.7	4,244	13.3
Mbozi	6,527	5.7	851	.7	3,973	3.5	6,527	5.7
Mbarali	2,776	5.4	1,262	2.5	505	1.0	6,434	12.6
Mbeya Urban	528	3.9	226	1.7	528	3.9	1,321	9.7
Total	32,156	7.1	6,056	1.3	20,610	4.5	40,915	9.0

Cont. 9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
	Number	%	Number	%	Number	%	Number	%
Chunya	3,122	6.2	0	.0	0	.0	1,624	3.2
Mbeya (R)	5,251	8.1	318	.5	0	.0	2,705	4.2
Kyela	3,612	7.9	113	.2	0	.0	226	.5
Rungwe	5,306	6.4	204	.2	0	.0	2,653	3.2
Ileje	2,829	8.9	79	.2	79	.2	236	.7
Mbozi	11,919	10.4	0	.0	284	.2	2,270	2.0
Mbarali	3,785	7.4	0	.0	0	.0	2,902	5.7
Mbeya Urban	830	6.1	453	3.3	151	1.1	453	3.3
Total	36,654	8.1	1,167	.3	513	.1	13,068	2.9

Cont. 9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
	Number	%	Number	%	Number	%	Number	%
Chunya	5,495	10.9	2,623	5.2	250	.5	125	.2
Mbeya (R)	7,002	10.9	4,456	6.9	159	.2	0	.0
Kyela	5,417	11.9	1,693	3.7	677	1.5	113	.2
Rungwe	8,571	10.4	5,102	6.2	408	.5	0	.0
Ileje	2,987	9.4	1,729	5.4	79	.2	0	.0
Mbozi	10,784	9.4	11,635	10.1	568	.5	568	.5
Mbarali	6,182	12.1	3,154	6.2	0	.0	252	.5
Mbeya Urban	1,396	10.3	1,057	7.8	75	.6	38	.3
Total	47,833	10.5	31,447	6.9	2,216	.5	1,095	.2

Cont. 9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	Number	%	Number	%	Number	%	Number	%
Chunya	1,499	3.0	375	.7	1,124	2.2	2,248	4.4
Mbeya (R)	159	.2	0	.0	3,978	6.2	1,432	2.2
Kyela	1,693	3.7	564	1.2	2,596	5.7	451	1.0
Rungwe	2,449	3.0	408	.5	4,081	4.9	2,449	3.0
Ileje	1,415	4.4	157	.5	1,808	5.7	1,100	3.5
Mbozi	1,135	1.0	1,135	1.0	11,351	9.9	3,122	2.7
Mbarali	757	1.5	0	.0	4,668	9.1	3,532	6.9
Mbeya Urban	566	4.2	38	.3	226	1.7	453	3.3
Total	9,672	2.1	2,677	.6	29,833	6.6	14,788	3.3

Cont. 9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
	Number	%	Number	%	Number	%	Number	%
Chunya	2,248	4.4	1,748	3.5	1,624	3.2	500	1.0
Mbeya (R)	1,591	2.5	796	1.2	3,501	5.4	0	.0
Kyela	2,934	6.4	790	1.7	7,336	16.0	226	.5
Rungwe	612	.7	1,020	1.2	11,224	13.6	408	.5
Ileje	943	3.0	550	1.7	2,358	7.4	79	.2
Mbozi	568	.5	568	.5	11,919	10.4	0	.0
Mbarali	757	1.5	378	.7	1,514	3.0	378	.7
Mbeya Urban	38	.3	943	6.9	1,132	8.3	0	.0
Total	9,691	2.1	6,794	1.5	40,607	8.9	1,590	.3

Cont. 9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%
Chunya	1,873	3.7	2,748	5.4	50,580	100.0
Mbeya (R)	1,432	2.2	0	.0	64,448	100.0
Kyela	1,016	2.2	0	.0	45,709	100.0
Rungwe	204	.2	204	.2	82,649	100.0
Ileje	157	.5	0	.0	31,830	100.0
Mbozi	1,703	1.5	1,986	1.7	114,929	100.0
Mbarali	3,659	7.2	1,892	3.7	51,095	100.0
Mbeya Urban	75	.6	0	.0	13,584	100.0
Total	10,119	2.2	6,830	1.5	454,824	100.0

Cont. 9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
	Number	%	Number	%	Number	%	Number	%
Chunya	874	1.7	874	1.7	4,621	9.1	1,249	2.5
Mbeya (R)	4,137	6.4	477	.7	4,774	7.4	3,819	5.9
Kyela	1,580	3.5	677	1.5	2,822	6.2	1,467	3.2
Rungwe	5,306	6.4	2,857	3.5	8,571	10.4	4,081	4.9
Ileje	393	1.2	707	2.2	1,572	5.0	2,043	6.4
Mbozi	3,973	3.5	3,973	3.5	12,486	10.9	9,081	7.9
Mbarali	757	1.5	1,135	2.2	2,271	4.4	1,009	2.0
Mbeya Urban	830	6.1	151	1.1	1,698	12.5	1,094	8.1
Total	17,850	3.93	10,852	2.4	38,814	8.5	23,844	5.2

**Cont. 9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08
Agricultural Year**

District	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
	Number	%	Number	%	Number	%	Number	%
Chunya	3,372	6.7	1,374	2.7	2,997	5.9	4,496	8.9
Mbeya (R)	6,047	9.4	1,114	1.7	2,705	4.2	2,864	4.4
Kyela	2,370	5.2	451	1.0	3,273	7.2	3,160	6.9
Rungwe	4,898	5.9	612	.7	4,898	5.9	4,898	5.9
Ileje	2,829	8.9	1,100	3.5	1,179	3.7	2,594	8.2
Mbozi	4,540	4.0	1,703	1.5	6,243	5.4	3,973	3.5
Mbarali	2,271	4.4	1,640	3.2	1,766	3.5	2,649	5.2
Mbeya Urban	491	3.6	302	2.2	302	2.2	264	1.9
Total	26,818	5.9	8,296	1.8	23,363	5.1	24,898	5.5

**Cont. 9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08
Agricultural Year**

District	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
	Number	%	Number	%	Number	%	Number	%
Chunya	2,997	5.9	125	.2	0	.0	1,499	3.0
Mbeya (R)	4,137	6.4	955	1.5	0	.0	1,910	3.0
Kyela	4,627	10.1	0	.0	0	.0	451	1.0
Rungwe	4,694	5.7	0	.0	0	.0	1,224	1.5
Ileje	1,965	6.2	0	.0	0	.0	157	.5
Mbozi	7,378	6.4	0	.0	284	.2	2,838	2.5
Mbarali	4,037	7.9	0	.0	0	.0	3,280	6.4
Mbeya Urban	1,132	8.3	189	1.4	38	.3	189	1.4
Total	30,968	6.8	1,268	.3	322	.1	11,548	2.5

Cont. 9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
	Number	%	Number	%	Number	%	Number	%
Chunya	6,619	13.1	1,124	2.2	500	1.0	125	.2
Mbeya (R)	8,116	12.6	4,615	7.2	0	.0	0	.0
Kyela	3,273	7.2	2,934	6.4	451	1.0	113	.2
Rungwe	7,755	9.4	4,286	5.2	1,224	1.5	0	.0
Ileje	3,222	10.1	1,415	4.5	157	.5	0	.0
Mbozi	13,621	11.9	4,540	4.0	1,986	1.7	284	.2
Mbarali	4,416	8.6	3,154	6.2	0	.0	252	.5
Mbeya Urban	2,151	15.8	830	6.1	151	1.1	38	.3
Total	49,172	10.8	22,898	5.0	4,470	1.0	812	.2

Cont. 9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	Number	%	Number	%	Number	%	Number	%
Chunya	874	1.7	500	1.0	2,248	4.4	2,373	4.7
Mbeya (R)	477	.7	955	1.5	5,570	8.6	955	1.5
Kyela	1,806	4.0	339	.7	2,934	6.4	677	1.5
Rungwe	3,265	4.0	816	1.0	4,081	4.9	2,041	2.5
Ileje	1,257	4.0	707	2.2	3,537	11.1	1,022	3.2
Mbozi	1,419	1.2	1,419	1.2	11,351	9.9	3,122	2.7
Mbarali	757	1.5	126	.2	4,163	8.1	2,145	4.2
Mbeya Urban	641	4.7	38	.3	906	6.7	604	4.4
Total	10,497	2.3	4,899	1.1	34,790	7.7	12,937	2.8

Cont. 9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Taxation	Government
	Number	%	Number	%	Number	%	Number	%
Chunya	1,249	2.5	2,123	4.2	2,748	5.4	375	.7
Mbeya (R)	159	.2	1,273	2.0	6,206	9.6	318	.5
Kyela	1,016	2.2	790	1.7	9,142	20.0	339	.7
Rungwe	1,224	1.5	816	1.0	14,489	17.5	408	.5
Ileje	236	.7	707	2.2	2,751	8.7	550	1.7
Mbozi	0	.0	2,270	2.0	9,648	8.4	568	.5
Mbarali	505	1.0	1,892	3.7	3,659	7.2	2,271	4.4
Mbeya Urban	113	.8	340	2.5	943	6.9	38	.3
Total	4,502	1.0	10,212	2.2	49,586	10.9	4,866	1.1

Cont. 9.4: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%
Chunya	1,748	3.5	3,497	6.9	50,580	100.0
Mbeya (R)	1,432	2.2	1,432	2.2	64,448	100.0
Kyela	1,016	2.2	0	.0	45,709	100.0
Rungwe	204	.2	0	.0	82,649	100.0
Ileje	1,493	4.7	157	.5	31,751	100.0
Mbozi	3,689	3.2	4,540	4.0	114,929	100.0
Mbarali	3,532	6.9	3,406	6.7	51,095	100.0
Mbeya Urban	75	.6	38	.3	13,584	100.0
Total	13,191	2.90	13,071	2.87	454,746	100.0

CATTLE PRODUCTION

9.5: Total Number of Households Rearing Cattle by District during 2007/08 Agriculture Year

District	Households rearing cattle		Households not rearing cattle		Total Agriculture households	Total Number of Households Rearing Livestock
	Number	%	Number	%		
Chunya	10,366	20.5	40,214	79.5	50,580	16,360
Mbeya (R)	22,597	35.1	41,851	64.9	64,448	27,370
Kyela	20,428	44.7	25,281	55.3	45,709	22,685
Rungwe	45,304	54.8	37,345	45.2	82,649	47,141
Ileje	14,461	45.4	17,369	54.6	31,830	18,234
Mbozi	39,161	34.1	75,768	65.9	114,929	52,782
Mbarali	13,373	26.2	37,722	73.8	51,095	18,041
Mbeya Urban	3,170	23.3	10,414	76.7	13,584	4,415
Total	168,859	37.1	285,965	62.9	454,824	207,028

9.6: Number of Cattle by Type and District as of 1st October 2008

District	Indigenous			Improved Beef			Improved Dairy			Total		
	Number of households	Number of Cattle	Percentage	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%
Chunya	10,241	140,874	99.8	0	.	-	250	250	0.2	10,366	141,124	100
Mbeya (R)	20,528	95,160	90.9	318	3,501	3.3	2,864	6,047	5.8	22,597	104,708	100
Kyela	20,202	85,887	98.8	113	113	0.1	564	903	1.0	20,428	86,903	100
Rungwe	17,346	43,672	42.6	2,449	4,286	4.2	29,591	54,487	53.2	45,304	102,445	100
Ileje	14,382	59,730	99.7	0	.	-	157	157	0.3	14,461	59,888	100
Mbozi	38,026	187,292	96.5	568	1,419	0.7	2,270	5,392	2.8	39,161	194,103	100
Mbarali	13,121	169,938	99.3	0	.	-	378	1,262	0.7	13,373	171,200	100
Mbeya Urban	1,698	5,358	54.4	151	264	2.7	1,585	4,226	42.9	3,170	9,848	100
Total	135,544	787912	90.5	3,598	9,582	1.1	37,660	72,724	8.4	168,859	870,218	100

9.7: Number of Households Rearing Cattle, Number of Cattle and Average Number of Cattle per Household by Herd size During the 2007/08 Agricultural Year

Heard Size	Cattle Rearing Households	%	Heard of Cattle	Average Number of Cattle Per Household
1 - 5	129,040	76	317,823	2
6 - 10	24,273	14	182,460	8
11 - 15	6,565	4	82,191	13
16 - 20	3,099	2	56,636	18
21 - 30	3,396	2	85,730	25
31 - 40	536	0	18,871	35
41 - 50	786	0	36,927	47
51 - 60	250	0	13,613	55
61 -100	914	1	75,967	83
Total	168,859	100	870,218	5

9.8: Total Number of Cattle by Cattle Breed and Economic Function, 2007/08 Agricultural Year

Cattle Types	Indigenous	Improved		Total Cattle	%
		Beef	Diary		
Castrated Bulls	167,284	568	2,822	170,674	20
Uncastrated Bulls	97,926	1,081	3,624	102,631	12
Cows	269,541	5,334	32,588	307,463	35
Steers	10,729	521	2,722	13,972	2
Heifers	95,644	0	14,279	109,923	13
Male Calves	60,383	1,670	6,075	68,129	8
Female Calves	86,405	408	10,613	97,426	11
Total	787,912	9,582	72,724	870,218	100

9.9: Total Number of indigenous Cattle by Category of cattle and District During the 2007/08 Agricultural Year

District	Cattle Herd Structure															
	Castrated Bulls		Uncastrated Bulls		Cows		Steers		Heifers		Male Calves		Female Calves		Total	
	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%
Chunya	28,100	24	16,610	17	44,211	22	250	0	24,103	12	11,240	11	16,360	14	140,874	100
Mbeya (R)	8,593	9	10,503	11	36,282	36	1,114	2	17,345	16	7,957	11	13,367	14	95,160	100
Kyela	29,005	29	12,866	14	21,331	24	564	1	10,045	14	4,402	7	7,675	11	85,887	100
Rungwe	4,490	8	6,734	17	19,591	39	0	0	4,490	12	3,061	8	5,306	16	43,672	100
Ileje	2,201	2	5,659	13	26,564	35	1,100	3	8,016	14	6,366	15	9,824	17	59,730	100
Mbozi	46,539	21	26,959	18	61,012	27	3,689	2	16,459	11	15,891	11	16,743	10	187,292	100
Mbarali	47,941	28	18,293	18	58,665	22	3,785	3	13,751	8	10,976	10	16,527	11	169,938	100
Mbeya Urban	415	5	302	6	1,887	33	226	5	1,434	28	491	11	604	10	5,358	100
Total	167,284	19	97,926	15	269,541	29	10,729	2	95,644	12	60,383	11	86,405	13	787,912	100

9.10: Total Number of Improved Beef Cattle by Category of cattle and District During the 2007/08 Agricultural Year

District	Cattle Herd Structure															
	Castrated Bulls (Oxen)		Uncastrated Bulls		Cows		Steers		Heifers		Male Calves		Female Calves		Total	
	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%
Chunya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mbeya (R)	0	0	318	50	3,183	50	0	0	0	0	0	0	0	0	3,501	100
Kyela	0	0	0	0	0	0	113	100	0	0	0	0	0	0	113	100
Rungwe	0	0	612	13	1,224	25	408	6	0	0	1,633	44	408	13	4,286	100
Ileje	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mbozi	568	50	0	0	851	50	0	0	0	0	0	0	0	0	1,419	100
Mbarali	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mbeya Urban	0	0	151	50	75	33	0	0	0	0	38	17	0	0	264	100
Total	568	6	1,081	15	5,334	30	521	7	0	0	1,670	33	408	9	9,582	100

9.11: Total Number of Improved Dairy Cattle by Category of Cattle and District during the 2007/08 Agricultural Year

District	Cattle Type															
	Castrated Bulls (Oxen)		Uncastrated Bulls		Cows		Steers		Heifers		Male Calves		Female Calves		Total	
	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%
Chunya	.		.		250	100		250	100
Mbeya (R)	.		.		2228	37	1591	26	1273	21	637	11	318	5	6047	100
Kyela	451	50	.		226	25	.		113	13	.		113	13	903	100
Rungwe	1429	3	2653	5	24285	45	816	1	12040	22	4286	8	8979	16	54487	100
Ileje	79	50	.		.		.		79	50	.		.		157	100
Mbozi	284	5	568	11	3122	58	.		284	5	851	16	284	5	5392	100
Mbarali	505	40	252	20	252	20	126	10	.		.		126	10	1262	100
Mbeya Urban	75	2	151	4	2226	53	189	4	491	12	302	7	792	19	4226	100
Total	2822	4	3624	5	32588	45	2722	4	14279	20	6075	8	10613	15	72724	100

9.12: Total Number Households rearing Cattle and Method of Cattle Identification by District during, 2007/08 Agricultural Year

District	Branding		Cattle Clan		Ear notching		Colour		Earrings		Others		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	7,618	52.1	2,997	20.5	624	4.3	1,249	9	0	.0	2,123	15	14,612	100
Mbeya (R)	637	2.1	4,456	14.9	1,114	3.7	16,072	54	159	.5	7,479	25	29,917	100
Kyela	226	.9	3,386	12.9	0	.0	18,171	69	226	.9	4,289	16	26,297	100
Rungwe	1,837	3.6	6,122	12.0	204	.4	36,325	71	612	1.2	5,714	11	50,814	100
Ileje	1,022	5.6	2,043	11.2	472	2.6	11,475	63	1,808	9.9	1,493	8	18,312	100
Mbozi	3,689	8.1	1,703	3.7	3,689	8.1	28,661	63	0	.0	7,946	17	45,688	100
Mbarali	5,173	30.6	2,523	14.9	757	4.5	5,299	31	126	.7	3,028	18	16,905	100
Mbeya U	38	.8	717	14.4	38	.8	2,641	53	340	6.8	1,207	24	4,981	100
Total	20,238	9.8	23,947	11.5	6,898	3.3	119,893	58	3,270	1.6	33,279	16	207,526	100

CATTLE MILK

9.13: Number of Milked Cow by Category of Cattle, Season type and District, During the 2007/08 Agricultural Year

District	Wet Season			Dry Season		
	Improved	Indigenous	Total	Improved	Indigenous	Total
	Sum	Sum	Sum	Sum	Sum	Sum
Chunya	125	24,978	25,103	125	20,731	20,856
Mbeya (R)	49,649	20,687	70,336	2,387	16,072	18,459
Kyela	226	12,189	12,415	226	13,882	14,108
Rungwe	22,448	12,857	35,305	20,407	12,448	32,856
Ileje	.	13,597	13,597	629	13,518	14,147
Mbozi	3,122	34,337	37,458	2,554	28,094	30,648
Mbarali	1,262	36,965	38,227	1,892	43,399	45,292
Mbeya Urba	2,151	1,245	3,396	2,075	1,434	3,509
Total	78,981	156,854	235,835	30,295	149,579	179,874

9.14: Average milk production per cow per day, by Category of Cow, Season, and District, During the 2007/08 Agricultural Year

District	Wet Season			Dry Season		
	Improved	Indigenous	Total	Improved	Indigenous	Total
	Mean	Mean	Mean	Mean	Mean	Mean
Chunya	8	2	3	10	1	1
Mbeya (R)	10	3	4	7	2	3
Kyela	6	2	2	5	2	2
Rungwe	8	4	7	6	3	5
Ileje	.	3	3	.	2	2
Mbozi	9	2	3	8	2	2
Mbarali	6	3	3	7	2	2
Mbeya Urban	9	3	7	6	3	5
Total	8	3	4	6	2	3

9.16: Average Cattle Milk price (Tshs/litre) per season by category of cow and District, During the 2007/08 Agricultural Year

District	Wet Season			Dry Season		
	Improved	Indigenous	Total	Improved	Indigenous	Total
	Mean	Mean	Mean	Mean	Mean	Mean
Chunya	500	393	396	600	407	416
Mbeya (R)	405	404	404	427	481	470
Kyela	600	375	381	600	411	417
Rungwe	374	397	382	416	325	386
Ileje	400	337	338	.	347	347
Mbozi	382	442	436	433	451	450
Mbarali	500	529	528	450	538	532
Mbeya Urban	413	453	427	429	484	448
Total	384	417	408	424	427	426

9.17: Average Cattle Milk price (Tshs/litre) per season by category of cow and Region, During the 2007/08 Agricultural Year

District	Number of milked cows		Average milk production per cow per day		Average number of days for cows on milked		Average price per litre per season	
	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season
	Chunya	25,103	20,856	2.6	1.5	111	95	396
Mbeya (R)	70,336	18,459	3.8	3.1	135	118	404	470
Kyela	12,415	14,108	2.4	2.1	103	95	381	417
Rungwe	35,305	32,856	6.7	5.1	155	108	382	386
Ileje	13,597	14,147	3.1	2.0	137	143	338	347
Mbozi	37,458	30,648	3.0	1.9	142	105	436	450
Mbarali	38,227	45,292	2.8	2.4	119	93	528	532
Mbeya Urban	3,396	3,509	7.1	5.2	184	175	427	448
Total	235,835	179,874	4.3	3.1	139	110	408	426

9.15: Average number of days for cows on milked, by category of Cattle, Season and District, During the 2007/08 Agricultural Year

District	Wet Season			Dry Season		
	Improved	Indigenous	Total	Improved	Indigenous	Total
	Mean	Mean	Mean	Mean	Mean	Mean
Chunya	90	111	111	90	95	95
Mbeya (R)	196	123	135	143	109	118
Kyela	180	100	103	165	93	95
Rungwe	168	128	155	119	84	108
Ileje	.	137	137	.	143	143
Mbozi	211	134	142	115	105	105
Mbarali	77	121	119	90	94	93
Mbeya Urban	208	141	184	193	141	175
Total	174	125	139	126	104	110

9.18: Average Cattle Milk price (Tshs/litre) per season by category of cow and District, During the 2007/08 Agricultural Year

District	Number of milked cows		Average milk production per cow per day (lts)		Average number of days cows milked		Average price per litre per season (Tshs)	
	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season
Chunya	25,103	20,856	3	1	111	95	396	416
Mbeya (R)	70,336	18,459	4	3	135	118	404	470
Kyela	12,415	14,108	2	2	103	95	381	417
Rungwe	35,305	32,856	7	5	155	108	382	386
Ileje	13,597	14,147	3	2	137	143	338	347
Mbozi	37,458	30,648	3	2	142	105	436	450
Mbarali	38,227	45,292	3	2	119	93	528	540
Mbeya Urban	3,396	3,509	7	5	184	175	427	448
Total	235,835	179,874	4	3	139	110	408	427

GOAT PRODUCTION

9.19: Number of Agriculture Households Rearing Goats by District during the 2007/08 Agricultural Year

District	Raising goats		Not raising goats		Total	Total livestock keeping households
	No of households	%	No of households	%		
Chunya	8,243	16	42,337	84	50,580	16,360
Mbeya (R)	24,029	37	40,419	63	64,448	27,370
Kyela	1,241	3	44,467	97	45,709	22,685
Rungwe	6,938	8	75,711	92	82,649	47,141
Ileje	14,304	45	17,526	55	31,830	18,234
Mbozi	32,918	29	82,011	71	114,929	52,782
Mbarali	6,308	12	44,787	88	51,095	18,041
Mbeya Urban	2,377	17	11,207	82	13,584	4,415
Total	96,358	21	358,466	79	454,824	207,028

9.20: Number of Goats by Type and District as of 1st October 2008

District	Indigenous			Improved for Meat			Improved Dairy			Total	
	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats
Chunya	8,243	105,531	100	0	.	-	0	.	-	8,243	105,531
Mbeya (R)	23,551	95,956	86	0	.	-	1,273	15,277	13.7	24,824	111,232
Kyela	1,241	1,693	100	0	.	-	0	.	-	1,241	1,693
Rungwe	6,938	17,346	100	0	.	-	0	.	-	6,938	17,346
Ileje	14,225	58,080	90	0	.	-	472	6758.98	10.4	14,697	64,839
Mbozi	32,918	154,658	99	0	.	-	284	851	0.5	33,202	155,509
Mbarali	6,182	78,472	99	126	757	1.0	0	.	-	6,308	79,229
Mbeya Urban	2,302	8,867	98	0	.	-	75	226	2.5	2,377	9,094
Total	95,601	520,603	96	126	757	0	2,104	23,113	4	97,831	544,473

9.21: Number of Households rearing Goat, Head of Goat and Average Head per Household by Herd size During the 2007/08 Agricultural Year - MBEYA

Herd Size	Goat Rearing Households	%	Head of Goat	Average Head per Household
1 - 4	60,681	63.0	140,321	2
5 - 9	20,787	21.6	128,779	6
10 - 14	7,084	7.4	77,950	11
15 - 19	2,363	2.5	39,146	17
20 - 24	2,797	2.9	58,775	21
25 - 29	456	.5	11,960	26
30 - 34	790	.8	24,067	30
35 - 39	536	.6	19,684	37
40+	865	.9	43,791	51
Total	96,358	100.0	544,473	5.65

9.22: Total Number of Goats by Category and Type of Goat as of 1st October 2008 - MBEYA

Category	Indigenous		Improved Meat		Improved Dairy		Total	
	Number	%	Number	%	Number	%	Number	%
Billy Goat	74,126	98.8	757	1.0	159	0.2	75,042	13.8
Castrated Goat	22,188	94.6	.	-	1,273	5.4	23,461	4.3
She Goat	306,877	98.1	.	-	5,991	1.9	312,867	57.5
Male Kid	53,087	79.2	.	-	13,945	20.8	67,032	12.3
She Kid	64,325	97.4	.	-	1,745	2.6	66,070	12.1
Total	520,603	95.6	757	0.1	23,113	4.2	544,473	100

9.23: Total Number of Indigenous Goat by Category and District as of 1st October 2008

District	Goat Type											
	Billy Goat		Castrated Goat		She Goat		Male Kid		She Kid		Total	
	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%
Chunya	13,738	13.02	7,493	7.10	58,198	55.15	11,989	11.36	14,112	13.37	105,531	100.0
Mbeya (R)	13,526	14.10	1,750	1.82	62,061	64.68	8,116	8.46	10,503	10.95	95,956	100.0
Kyela	339	20.00	.	.	1,129	66.67	113	6.67	113	6.67	1,693	100.0
Rungwe	2,653	15.29	1,837	10.59	10,612	61.18	408	2.35	1,837	10.59	17,346	100.0
Ileje	6,759	11.64	1,415	2.44	37,332	64.28	5,659	9.74	6,916	11.91	58,080	100.0
Mbozi	24,121	15.60	4,824	3.12	95,349	61.65	13,621	8.81	16,743	10.83	154,658	100.0
Mbarali	11,859	15.11	4,416	5.63	36,839	46.95	12,238	15.59	13,121	16.72	78,472	100.0
Mbeya Urban	1,132	12.77	453	5.11	5,358	60.43	943	10.64	981	11.06	8,867	100.0
Total	74,126	14.24	22,188	4.26	306,877	58.95	53,087	10.20	64,325	12.36	520603	100.0

SHEEP PRODUCTION

9.24: Number of Households Rearing Sheep by District during the 2007/08 Agriculture Year

District	Number of households raising or managing sheep	%	Number of households not raising or managing sheep	%	Number of agriculture households	Total livestock keeping households
Chunya	2,748	5.4	47,832	94.6	50,580	16,360
Mbeya (R)	3,978	6.2	60,470	93.8	64,448	27,370
Kyela	0	.0	45,709	100.0	45,709	22,685
Rungwe	1,020	1.2	81,629	98.8	82,649	47,141
Ileje	2,122	6.7	29,708	93.3	31,830	18,234
Mbozi	1,703	1.5	113,227	98.5	114,929	52,782
Mbarali	2,776	5.4	48,319	94.6	51,095	18,041
Mbeya Urban	302	2.2	13,282	97.8	13,584	4,415
Total	14,648	3.2	440,176	96.8	454,824	207,028

9.25: Number of Sheep by Type and District as of 1st October 2008

District			Total	
	Number of Household	%	Number of Indigenous	%
Chunya	2,748	19	23,229	23.6
Mbeya (R)	3,978	27	15,436	15.7
Kyela	0	0	0	0.0
Rungwe	1,020	7	21,224	21.6
Ileje	2,122	14	6,602	6.7
Mbozi	1,703	12	5,959	6.1
Mbarali	2,776	19	24,980	25.4
Mbeya Urban	302	2	792	0.8
Total	14,648	2,29	98,222	1.7

9.26: Total Number of Indigenous Sheep by Category of Sheep and District as of 1st October 2007/08 Agriculture year

District	Number of Indigenous								Total
	Ram	%	Castrated Sheep	%	She Sheep	%	Male Lamb	Female Lamb	
Chunya	3,996	13	874	17	14,487	31	1,499	2,373	23,229
Mbeya (R)	1,910	6	637	13	11,298	24	637	955	15,436
Kyela	0	0	0	0	0	0	.	.	.
Rungwe	20,407	66	0	0	816	2	.	.	21,224
Ileje	629	2	157	3	3,772	8	393	1,650	6,602
Mbozi	568	2	1,986	39	2,554		568	284	5,959
Mbarali	3,406	11	1,388	28	13,121		3,280	3,785	24,980
Mbeya Urban	75	0	0	0	679		.	38	792
Total	30,991		5,042		46,728		6,376	9,084	98,222

9.27: Number of Households rearing Sheep, Head of Sheep and Average Head per Household by Herd size During the 2007/08 Agricultural Year, MBEYA

Herd size	Sheep Rearing Households	%	Herd of sheep	Average Per Household
1 - 4	25,314	85.72	44,061	2
5 - 9	2,817	9.54	15,529	6
10 - 14	658	2.23	7,579	12
15 - 19	251	.85	4,144	17
20 - 24	126	.43	2,523	20
25 - 29	159	.54	3,978	25
40+	204	.69	20,407	100
Total	29,530	100.00	98,222	3

9.28: Total Number of Sheep by Breed Type During the 2007/08 Agriculture Year - MBEYA

Category	Number of Indigenous	%	Number of Improved	%	Total	%
Rams	30,991	100	0	0	30,991	22
She Sheep	5,042	100	0	0	5,042	6
Castrated Sheep	46,728	100	0	0	46,728	46
Male Lamb	6,376	100	0	0	6,376	12
Female Lamb	9,084	100	0	0	9,084	14
Total	98,222	100	0	0	98,222	100

PIG PRODUCTION

9.29: Number of Households Raising Pigs by District during 2007/08 Agriculture Year

District	During the 2007/2008 Agriculture Year					
	rearing Pigs		Not rearing pigs		Total	
	No of households	%	No of households	%	No of households	%
Chunya	12,988	25.7	37,591	74.3	50,580	100.0
Mbeya (R)	11,298	17.5	53,150	82.5	64,448	100.0
Kyela	16,703	36.5	29,005	63.5	45,709	100.0
Rungwe	27,550	33.3	55,100	66.7	82,649	100.0
Ileje	5,659	17.8	26,171	82.2	31,830	100.0
Mbozi	24,972	21.7	89,957	78.3	114,929	100.0
Mbarali	5,173	10.1	45,922	89.9	51,095	100.0
Mbeya Urban	2,151	15.8	11,433	84.2	13,584	100.0
Total	106,494	23.4	348,330	76.6	454,824	100.0

9.30: Number of Pigs per Household by District as of 1st October 2008

District	Number of households	Number of pigs	Average per household
Chunya	12,988	65566	5
Mbeya (R)	11,298	31190	3
Kyela	16,703	44129	3
Rungwe	27,550	48569	2
Ileje	5,659	10060	2
Mbozi	24,972	117483	5
Mbarali	5,173	20564	4
Mbeya Urban	2,151	8905	4
Total	106,494	346466	3

9.31: Number of Households Rearing Pigs, Head of Pigs and Average Head per Household by Herd Size as of 1st October 2008 - MBEYA

Herd size	Pig rearing households		Herd of pigs		Average per household
	Number	%	Number	%	
1 - 4	86,318	81	147,739	42.6	2
5 - 9	10,617	10	65,189	18.8	6
10 - 14	6,480	6	75,219	21.7	12
15 - 19	2,465	2	37,933	10.9	15
20 - 24	126	0	2,776	0.8	22
30 - 39	363	0	11,492	3.3	32
40+	125	0	6,120	1.8	49
Total	106,494	100	346,466	100.0	3

9.32: Total Number of Pigs by Type of Pigs and District as of 1st October 2008

District	Pig Type					
	Boar	Castrated Male	Sow / Gilt	Male Piglet	She Piglet	Total
Chunya	12988	6744	28350	7993	9492	65566
Mbeya (R)	4297	955	17663	4615	3660	31190
Kyela	5982	7110	23024	6997	1016	44129
Rungwe	4081	6938	26121	8367	3061	48569
Ileje	943	550	6130	707	1729	10060
Mbozi	12770	13054	35188	21567	34904	117483
Mbarali	2902	1388	10724	1514	4037	20564
Mbeya Urban	981	491	4151	1358	1924	8905
Total	44944	37230	151351	53119	59823	346466

CHICKEN AND OTHER LIVESTOCK

9.33: Number of Chicken by Type and District as of 1st October 2008

District	Indigineous chicken			Layers			Broilers			Total	
	Number of Households	Number of Indigineous Chicken	%	Number of Households	Number of Layers	%	Number of Households	Number of Broilers	%	Number of Households	Number of Chicken
Chunya	33,220	471,953	91	250	1,624	0.3	1,499	12,239	2.4	34,969	485,816
Mbeya (R)	51,877	440,473	94	955	4,774	1.0	159	3,183	0.7	52,990	448,429
Kyela	36,567	369,958	98	226	226	0.1	113	564	0.1	36,905	370,748
Rungwe	66,528	507,325	98	204	204	0.0	0	0	0.0	66,732	507,529
Ileje	24,600	197,661	95	550	2,594	1.2	157	472	0.2	25,307	200,726
Mbozi	93,079	1,091,688	94	851	3,122	0.3	0	0	0.0	93,930	1,094,809
Mbarali	32,171	358,296	97	126	505	0.1	126	378	0.1	32,423	359,179
Mbeya Urb	7,698	82,221	71	189	24,715	21.3	0	0	0.0	7,886	106,936
Total	345,738	3,519,574	94	3,351	37,762	1.0	2,054	16,836	0.4	351,143	3,574,172

9.34: Number of Households Keeping Chickens and Average Number of Chickens per Household by Flock Size as of 1st October 2008 - MBEYA

Heard Size	Indigineous chicken				Layers				Broilers			
	Number of Households	Number of Indigineous Chicken	%	Number of Animal Per Household	Number of Households	Number of Layers	%	Number of Animal Per Household	Number of Households	Number of Broilers	%	Number of Animal Per Household
1-49	341,903	3304330	94	10	3,200	13,236	0	4	2,054	16,836	0	8
50-99	3,710	202,755	100	55	0	.	0	.	0	.	0	.
100-299	125	12489	52	100	113	11,320	48	100	0	.	0	.
300-499	0	.	0	.	38	13,207	10	350	0	.	0	.
Total	345,738	3,519,574	94	10	3,351	37,762	1.0	11	2,054	16,836	0.4	8

9.35: Number of Other Livestock by Type of livestock and Region as of 1st October 2008

District	Ducks	Guine pigs	Turkeys	Rabbits	Donkeys	Horses	Dogs
Chunya	19,233	.	.	.	749	.	10,740
Mbeya (R)	3,819	1,432	.	3,501	2,387	.	10,662
Kyela	2,144	1,806	3,047
Rungwe	1,224	.	.	816	.	.	7,551
Ileje	1,179	.	.	3,930	.	.	2,358
Mbozi	19,013	2,554	14,756	10,500	1,135	.	21,851
Mbarali	4,416	757	.	.	1,009	.	5,677
Mbeya Urban	3,321	604	302	1,849	453	.	2,453
Total	54,349	7,153	15,058	20,595	5,733	.	64,339

9.36: Total Number of Chicken and Other Livestock by Type as of 1st October 2008

Type	Chicken		Others	
	Number	%	Type	Number
Indigenous Chicken	41,836,468	1170.5	Ducks	54,349
Layer	1,261,843	35.3	Guine pigs	7,153
Broiler	584,130	16.3	Turkeys	15,058
			Rabbits	20,595
			Donkeys	5,733
			Horses	0
			Dogs	64,339
TOTAL	3,574,172	100		167,227

PESTS AND PARASITES

9.37: Number of Livestock Rearing households deworming Livestock by District during 2007/08 Agriculture Year

District	Deworming Livestock		Not Deworm Livestock		Total	
	Number	%	Number	%	Number of Livestock Rearing households	%
Chunya	13,613	34	26,601	66	40,214	100
Mbeya (R)	26,097	48	28,007	52	54,104	100
Kyela	20,992	49	22,008	51	43,000	100
Rungwe	46,733	63	27,754	37	74,487	100
Ileje	14,618	50	14,697	50	29,315	100
Mbozi	45,972	45	55,336	55	101,308	100
Mbarali	16,779	46	19,429	54	36,208	100
Mbeya Urban	5,509	52	5,094	48	10,603	100
Total	190,313	49	198,926	51	389,239	100

9.38: Number of Livestock Rearing households that dewormed Livestock by type of livestock and district, 2007/08 Agricultural Year

District	Cattles				Goats/sheep				Pigs			
	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total
Chunya	5,495	1,249	6,369	13,113	3,122	1,499	8,617	13,238	6,244	1,124	5,745	13,113
Mbeya (R)	15,436	1,432	13,049	29,917	12,253	3,819	13,844	29,917	7,161	1,591	21,323	30,076
Kyela	12,528	2,144	7,223	21,895	564	564	20,428	21,556	10,835	2,370	8,803	22,008
Rungwe	35,101	3,061	9,591	47,753	3,061	7,755	36,733	47,549	20,203	5,306	21,836	47,345
Ileje	8,960	1,729	4,165	14,854	7,702	2,515	4,794	15,011	3,537	2,201	8,960	14,697
Mbozi	25,824	4,824	17,310	47,958	15,324	8,230	23,553	47,107	13,905	5,108	27,810	46,823
Mbarali	11,102	883	5,930	17,915	3,532	1,892	11,985	17,410	2,776	1,262	13,625	17,662
Mbeya Urban	2,717	415	2,641	5,773	1,396	679	3,547	5,622	1,773	377	3,471	5,622
Total	117,161	15,738	66,279	199,178	46,955	26,953	123,502	197,411	66,434	19,339	111,574	197,346

9.39: Number of Livestock Rearing Households Normally Encountering Tick Problems by District during 2007/08 Agriculture Year

District	Tick Problem		No Tick Problem		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Chunya	8,992	22	7,743	19	23,479	58	40,214	100
Mbeya (R)	22,915	39	11,457	20	23,870	41	58,242	100
Kyela	17,381	40	6,207	14	19,976	46	43,564	100
Rungwe	28,570	38	25,509	34	21,020	28	75,099	100
Ileje	13,439	46	8,331	28	7,545	26	29,315	100
Mbozi	37,175	36	17,878	18	47,107	46	102,159	100
Mbarali	12,868	35	3,785	10	20,186	55	36,839	100
Mbeya Urb	2,339	22	3,094	29	5,283	49	10,716	100
Total	143,679	36	84,005	21	168,465	43	396,149	100

9.40: Number of Livestock Rearing Households by Method of Tick Control and District during 2007/08 Agriculture Year

District	Dipping		Spraying		Smearing		None		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	500	1	9,117	23	1,873	5	28,599	71	125	0	40,214	100
Mbeya (R)	4,297	7	14,322	25	2,387	4	36,282	62	955	2	58,242	100
Kyela	1,354	3	16,478	38	1,467	3	24,039	55	226	1	43,564	100
Rungwe	7,551	10	19,795	26	612	1	47,141	63	204	0	75,303	100
Ileje	2,436	8	11,789	40	1,257	4	13,675	47	157	1	29,315	100
Mbozi	1,419	1	30,364	30	4,257	4	65,269	64	851	1	102,159	100
Mbarali	5,803	16	6,560	18	1,388	4	23,087	63	0	0	36,839	100
Mbeya Urban	151	1	2,604	24	604	6	7,320	68	38	0	10,716	100
Total	23,511	6	111,028	28	13,845	3	245,413	62	2,556	1	396,353	100

9.41: Number of Livestock Rearing Households normally Encountering Tsetse Flies Problems by District during 2007/08 Agriculture Year

District	Households Encountering Tsetse problems		Households Without Tsetse Problems		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Chunya	1,998	5	12,739	32	25,477	63	40,214	100
Mbeya (R)	1,910	3	29,757	51	26,575	46	58,242	100
Kyela	8,126	19	15,349	35	20,089	46	43,564	100
Rungwe	2,041	3	45,100	60	28,162	37	75,303	100
Ileje	3,615	12	16,662	57	9,038	31	29,315	100
Mbozi	7,946	8	43,134	42	51,080	50	102,159	100
Mbarali	5,046	14	9,714	26	22,078	60	36,839	100
Mbeya Urb	377	4	4,264	40	6,075	57	10,716	100
Total	31,059	8	176,719	45	188,574	48	396,353	100

9.42: Number of Livestock Rearing Households by Method of Tsetse Flies Control and District during 2007/08 Agriculture Year

District	Dipping		Spraying		Trappig		None		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	500	1	2,498	6	1,499	4	35,593	89	125	0	40,214	100
Mbeya (R)	159	0	1,591	3	2,069	4	53,309	92	1,114	2	58,242	100
Kyela	1,129	3	6,772	16	1,580	4	33,858	78	226	1	43,564	100
Rungwe	612	1	4,490	6	612	1	69,589	92	0	0	75,303	100
Ileje	1,415	5	2,751	9	1,886	6	23,263	79	0	0	29,315	100
Mbozi	568	1	9,081	9	5,676	6	86,836	85	0	0	102,159	100
Mbarali	3,028	8	1,892	5	1,135	3	30,783	84	0	0	36,839	100
Mbeya Urban	0	0	679	6	566	5	9,433	88	38	0	10,716	100
Total	7,410	2	29,754	8	15,023	4	342,664	86	1,502	0	396,353	100

9.43: Number of Livestock Rearing Households normally Encountering Newcastle Disease Problems by District during 2007/08 Agriculture Year

District	Households Encountering Newcastle Disease problems		Households NOT Encountering Newcastle Disease problems		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Chunya	26,726	66	7,993	20	5,495	14	40,214	100
Mbeya (R)	40,101	69	13,049	22	5,092	9	58,242	100
Kyela	26,748	61	11,512	26	5,304	12	43,564	100
Rungwe	48,569	64	20,611	27	6,122	8	75,303	100
Ileje	15,561	53	11,396	39	2,358	8	29,315	100
Mbozi	74,066	73	19,581	19	8,513	8	102,159	100
Mbarali	25,611	70	6,813	18	4,416	12	36,839	100
Mbeya Urban	5,283	49	2,981	28	2,453	23	10,716	100
Total	262,665	66	93,935	24	39,753	10	396,353	100

9.44: Number of Livestock Rearing Households by Method of Newcastle Disease Control and District during 2007/08 Agriculture Year

District	Vaccination		Local Herbs		None		Total	
	Number	%	Number	%	Number	%	Number	%
Chunya	11,240	28	13,363	33	15,611	39	40,214	100
Mbeya (R)	18,459	32	9,707	17	30,076	52	58,242	100
Kyela	17,945	41	3,499	8	22,121	51	43,564	100
Rungwe	23,264	31	18,162	24	33,876	45	75,303	100
Ileje	9,824	34	6,366	22	13,125	45	29,315	100
Mbozi	38,310	38	26,391	26	37,458	37	102,159	100
Mbarali	17,410	47	5,803	16	13,625	37	36,839	100
Mbeya Urban	2,189	20	2,226	21	6,301	59	10,716	100
Total	138,641	35	85,518	22	172,194	43	396,353	100

9.45: Number of Livestock Rearing Households normally Encountering Fowl Typhoid Disease Problems by District during 2007/08 Agriculture Year

District	Households Encountering Fowl Typhoid Disease problems		Households NOT Encountering Fowl Typhoid Disease problems		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Chunya	15,112	38	18,359	46	6,744	17	40,214	100
Mbeya (R)	17,982	31	35,168	60	5,092	9	58,242	100
Kyela	12,640	29	25,958	60	4,966	11	43,564	100
Rungwe	19,183	25	48,977	65	7,143	9	75,303	100
Ileje	8,174	28	18,705	64	2,436	8	29,315	100
Mbozi	43,134	42	49,093	48	9,932	10	102,159	100
Mbarali	12,238	33	20,186	55	4,416	12	36,839	100
Mbeya Urb	2,038	19	5,962	56	2,717	25	10,716	100
Total	130,499	33	222,408	56	43,446	11	396,353	100

9.46: Number of Livestock Rearing Households normally Encountering Fowl Typhoid Disease Problems by District during 2007/08 Agriculture Year

District	Households Encountering Fowl Typhoid Disease problems		Households NOT Encountering Fowl Typhoid Disease problems		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Chunya	15,112	38	18,359	46	6,744	17	40,214	100
Mbeya (R)	17,982	31	35,168	60	5,092	9	58,242	100
Kyela	12,640	29	25,958	60	4,966	11	43,564	100
Rungwe	19,183	25	48,977	65	7,143	9	75,303	100
Ileje	8,174	28	18,705	64	2,436	8	29,315	100
Mbozi	43,134	42	49,093	48	9,932	10	102,159	100
Mbarali	12,238	33	20,186	55	4,416	12	36,839	100
Mbeya Urban	2,038	19	5,962	56	2,717	25	10,716	100
Total	130,499	33	222,408	56	43,446	11	396,353	100

9.47: Number of Livestock Rearing Households normally Encountering Foot and Mouth Disease Problems by Region during 2007/08 Agriculture Year

District	Households Encountering Foot and Mouth Disease		Households NOT Encountering Foot and Mouth Disease		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Chunya	2,248	6	9,991	25	27,975	70	40,214	100
Mbeya (R)	2,546	4	20,846	36	34,850	60	58,242	100
Kyela	113	0	21,331	51	19,976	48	41,420	100
Rungwe	816	1	48,365	64	26,325	35	75,507	100
Ileje	1,257	4	16,504	58	10,689	38	28,451	100
Mbozi	4,257	4	38,594	38	59,309	58	102,159	100
Mbarali	3,280	9	10,976	31	21,447	60	35,703	100
Mbeya Urban	528	5	3,622	34	6,566	61	10,716	100
Total	15,046	4	170,230	43	207,137	53	392,412	100

9.48: Number of Livestock Rearing Households normally Encountering Lympyskin Disease Problems by District during 2007/08 Agriculture Year

District	Households Encountering Lympyskin Disease		Households NOT Encountering Lympyskin Disease		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Chunya	2,498	6	9,616	24	28,100	70	40,214	100
Mbeya (R)	1,591	3	21,642	37	35,009	60	58,242	100
Kyela	113	0	21,556	52	19,751	48	41,420	100
Rungwe	4,081	5	44,692	59	26,734	35	75,507	100
Ileje	629	2	17,369	61	10,453	37	28,451	100
Mbozi	1,703	2	38,877	38	61,579	60	102,159	100
Mbarali	378	1	13,121	37	22,204	62	35,703	100
Mbeya Urban	415	4	3,547	33	6,754	63	10,716	100
Total	11,408	3	170,420	43	210,584	54	392,412	100

LIVESTOCK EXTENSION SERVICE

9.49: Number of households receiving extension advice by region during the 2007/08 agriculture year

District	Receiving Livestock services		Not Receiving Livestock Extension services		Total
	Number	%	Number	%	
Chunya	21,481	56	16,735	44	38,216
Mbeya (R)	34,690	61	22,437	39	57,128
Kyela	28,328	69	12,528	31	40,856
Rungwe	65,507	89	8,367	11	73,874
Ileje	21,063	75	6,995	25	28,058
Mbozi	62,147	63	36,891	37	99,038
Mbarali	21,447	59	14,761	41	36,208
Mbeya Urban	6,603	66	3,471	34	10,075
Total	261,267	68	122,185	32	383,452

9.50: Number of Households receiving Livestock advice (overall) By Source of Extension and District during the 2007/08 agriculture year

District	Source of Livestock Extension												Number of Household receiving Extension
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Chunya	20,107	42.9	1,624	3.5	250	0.5	250	0.5	1,374	2.9	1,249	2.7	46,854
Mbeya (R)	23,074	127.3	3,660	20.2	637	3.5	0	0.0	3,023	16.7	11,935	65.9	18,124
Kyela	27,651	102.9	451	1.7	226	0.8	339	1.3	1,016	3.8	1,016	3.8	26,865
Rungwe	61,426	105.4	3,877	6.7	204	0.4	612	1.1	9,183	15.8	14,285	24.5	58,267
Ileje	20,120	115.4	2,515	14.4	1,965	11.3	1,100	6.3	2,751	15.8	2,594	14.9	17,435
Mbozi	54,485	232.5	4,540	19.4	0	0.0	1,135	4.8	4,540	19.4	9,365	40.0	23,437
Mbarali	18,419	322.6	5,046	88.4	6,182	108.3	2,776	48.6	3,911	68.5	1,766	30.9	5,710
Mbeya Urban	4,075	13.4	1,094	3.6	415	1.4	377	1.2	1,057	3.5	3,019	9.9	30,385
Total	229,357	101.0	22,808	10.0	9,878	4.4	6,589	2.9	26,855	11.8	45,228	19.9	227,076

9.51: Number of Agriculture Households Receiving Advice on Feeds and Proper Feeding by Source and District During 2007/08 agriculture Year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other	%	
Chunya	12,489	91.7	125	0.9	0		125	0.9	749	5.5	125	0.9	0		13,613
Mbeya (R)	8,911	66.7	1,750	13.1	0		0	0.0	318	2.4	2,387	17.9	0		13,367
Kyela	10,496	95.9	0	0.0	0		226	2.1	113	1.0	0	0.0	113		10,947
Rungwe	35,713	86.2	612	1.5	0		0	0.0	1,633	3.9	3,265	7.9	204		41,427
Ileje	10,060	87.7	393	3.4	314		0	0.0	393	3.4	236	2.1	79		11,475
Mbozi	15,324	88.5	851	4.9	0		284	1.6	284	1.6	568	3.3	0		17,310
Mbarali	8,957	81.6	505	4.6	252		1,135	10.3	0	0.0	126	1.1	0		10,976
Mbeya Urban	2,943	65.0	528	11.7	0		0	0.0	302	6.7	679	15.0	75		4,528
Total	104,893	84.8	4,765	3.9	567		1,770	1.4	3,792	3.1	7,386	6.0	471		123,643

9.52: Number of households receiving extension advice on Proper Livestock Housing by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Chunya	20,107	80.9	1,624	6.5	250	1.0	250	1.0	1,374	249	1,249	5.0	0	0.0	24,853
Mbeya (R)	23,074	54.5	3,660	8.6	637	1.5	0	0.0	3,023	0	11,935	28.2	0	0.0	42,329
Kyela	27,651	90.1	451	1.5	226	0.7	339	1.1	1,016	134	1,016	3.3	134	0.4	30,698
Rungwe	61,426	68.6	3,877	4.3	204	0.2	612	0.7	9,183	1,486	14,285	15.9	0	0.0	89,588
Ileje	20,120	64.8	2,515	8.1	1,965	6.3	1,100	3.5	2,751	326	2,594	8.4	0	0.0	31,044
Mbozi	54,485	73.6	4,540	6.1	0	0.0	1,135	1.5	4,540	0	9,365	12.6	0	0.0	74,066
Mbarali	18,419	48.3	5,046	13.2	6,182	16.2	2,776	7.3	3,911	0	1,766	4.6	0	0.0	38,100
Mbeya Urban	4,075	40.6	1,094	10.9	415	4.1	377	3.8	1,057	1,311	3,019	30.1	0	0.0	10,037
Total	229,357	67.3	22,808	6.7	9,878	2.9	6,589	1.9	26,855	3,507	45,228	13.3	134	0.0	340,715

9.53: Number of households receiving extension advice on Proper Milking and Milk Hygiene by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other	%	
Chunya	3,622	88	250	6	0	0	0	0	125	3	125	3	0	0	4,121
Mbeya (R)	3,819	55	955	14	159	2	0	0	318	5	1,750	25	0	0	7,002
Kyela	4,063	84	0	0	0	0	226	5	339	7	226	5	0	0	4,853
Rungwe	25,305	86	204	1	0	0	408	1	408	1	2,653	9	408	1	29,386
Ileje	8,331	85	314	3	157	2	79	1	236	2	550	6	157	2	9,824
Mbozi	5,959	70	568	7	0	0	0	0	0	0	1,986	23	0	0	8,513
Mbarali	3,532	64	757	14	126	2	126	2	883	16	126	2	0	0	5,551
Mbeya Urban	1,962	68	226	8	38	1	38	1	189	7	377	13	38	1	2,868
Total	56,594	78	3,274	5	480	1	876	1	2,497	3	7,794	11	603	1	72,119

9.54: Number of households receiving extension advice on Livestock fattening by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other	%	
Chunya	2,248	81.8	125	4.5	0	0.0	0	0.0	250	9.1	125	4.5	0	0.0	2,748
Mbeya (R)	5,092	76.2	637	9.5	0	0.0	0	0.0	159	2.4	796	11.9	0	0.0	6,683
Kyela	4,063	92.3	0	0.0	0	0.0	113	2.6	226	5.1	0	0.0	0	0.0	4,402
Rungwe	17,142	85.7	612	3.1	0	0.0	408	2.0	816	4.1	1,020	5.1	0	0.0	19,999
Ileje	6,680	84.2	79	1.0	79	1.0	0	0.0	393	5.0	629	7.9	79	1.0	7,938
Mbozi	7,094	86.2	284	3.4	0	0.0	284	3.4	284	3.4	284	3.4	0	0.0	8,230
Mbarali	3,406	77.1	505	11.4	0	0.0	126	2.9	252	5.7	126	2.9	0	0.0	4,416
Mbeya Urban	1,660	77.2	302	14.0	0	0.0	38	1.8	38	1.8	113	5.3	0	0.0	2,151
Total	47,387	83.8	2,543	4.5	79	0.1	969	1.7	2,418	4.3	3,093	5.5	79	0.1	56,566

9.55: Number of households receiving extension advice on Disease control (dipping/spraying) by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale		Radio/TV/Newspape		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Chunya	13,238	94.6	250	1.8	0	0.0	0	0.0	375	2.7	125	0.9	0	0.0	13,988
Mbeya (R)	15,595	64.5	1,591	6.6	0	0.0	0	0.0	955	3.9	5,251	21.7	796	3.3	24,188
Kyela	22,685	97.1	226	1.0	0	0.0	113	0.5	226	1.0	113	0.5	0	0.0	23,362
Rungwe	40,610	85.0	612	1.3	0	0.0	612	1.3	3,265	6.8	2,449	5.1	204	0.4	47,753
Ileje	14,933	89.6	236	1.4	236	1.4	314	1.9	472	2.8	472	2.8	0	0.0	16,662
Mbozi	45,688	86.1	1,419	2.7	0	0.0	568	1.1	1,135	2.1	4,257	8.0	0	0.0	53,066
Mbarali	14,382	83.2	505	2.9	0	0.0	631	3.6	1,009	5.8	757	4.4	0	0.0	17,284
Mbeya Urban	2,490	61.1	415	10.2	0	0.0	75	1.9	189	4.6	868	21.3	38	0.9	4,075
Total	169,622	84.7	5,253	2.6	236	0.1	2,313	1.2	7,625	3.8	14,291	7.1	1,037	0.5	200,378

9.56: Number of households receiving extension advice on Herd/Flock size and selection by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Chunya	8,867	94.7	500	5.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	9,367
Mbeya (R)	10,343	71.4	955	6.6	318	2.2	0	0.0	796	5.5	1,910	13.2	159	1.1	14,481
Kyela	4,289	92.7	0	0.0	0	0.0	113	2.4	226	4.9	0	0.0	0	0.0	4,627
Rungwe	15,101	83.1	816	4.5	0	0.0	0	0.0	612	3.4	1,429	7.9	204	1.1	18,162
Ileje	8,567	87.9	0	0.0	79	0.8	157	1.6	393	4.0	472	4.8	79	0.8	9,746
Mbozi	9,081	84.2	568	5.3	0	0.0	284	2.6	851	7.9	0	0.0	0	0.0	10,784
Mbarali	7,065	78.9	631	7.0	378	4.2	252	2.8	378	4.2	252	2.8	0	0.0	8,957
Mbeya (U)	1,849	63.6	302	10.4	0	0.0	38	1.3	264	9.1	453	15.6	0	0.0	2,905
Total	65,162	82.5	3,771	4.8	775	1.0	844	1.1	3,520	4.5	4,515	5.7	442	0.6	79,029

9.57: Number of households receiving extension advice on Pasture Establishment by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other	%	
Chunya	3,122	83.3	500	13.3	0	0.0	0	0.0	125	3.3	0	0.0	0	0.0	3,747
Mbeya (R)	2,864	72.0	477	12.0	0	0.0	0	0.0	159	4.0	477	12.0	0	0.0	3,978
Kyela	1,806	84.2	0	0.0	0	0.0	113	5.3	226	10.5	0	0.0	0	0.0	2,144
Rungwe	8,979	78.6	408	3.6	0	0.0	0	0.0	1,020	8.9	1,020	8.9	0	0.0	11,428
Ileje	5,894	84.3	0	0.0	79	1.1	0	0.0	550	7.9	314	4.5	157	2.2	6,995
Mbozi	3,122	73.3	851	20.0	0	0.0	0	0.0	0	0.0	284	6.7	0	0.0	4,257
Mbarali	3,280	72.2	252	5.6	378	8.3	126	2.8	505	11.1	0	0.0	0	0.0	4,542
Mbeya (U)	1,472	81.3	75	4.2	0	0.0	38	2.1	113	6.3	113	6.3	0	0.0	1,811
Total	30,539	78.5	2,564	6.6	457	1.2	277	0.7	2,698	6.9	2,209	5.7	157	0.4	38,902

9.58: Number of households receiving extension advice on Group formation and strengthening by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other	%	
Chunya	9,866	91.9	250	2.3	0	0.0	0	0.0	250	2.3	375	3.5	0	0.0	10,740
Mbeya (R)	4,137	65.0	1,591	25.0	318	5.0	0	0.0	159	2.5	159	2.5	0	0.0	6,365
Kyela	11,512	96.2	226	1.9	226	1.9	0	0.0	0	0.0	0	0.0	0	0.0	11,963
Rungwe	24,693	91.0	816	3.0	204	0.8	0	0.0	1,224	4.5	204	0.8	0	0.0	27,142
Ileje	10,689	78.2	707	5.2	1,179	8.6	236	1.7	314	2.3	550	4.0	0	0.0	13,675
Mbozi	6,527	67.6	2,838	29.4	0	0.0	0	0.0	0	0.0	284	2.9	0	0.0	9,648
Mbarali	3,911	39.7	1,766	17.9	3,911	39.7	0	0.0	126	1.3	126	1.3	0	0.0	9,841
Mbeya (U)	1,811	67.6	113	4.2	226	8.5	0	0.0	75	2.8	453	16.9	0	0.0	2,679
Total	73,146	79.5	8,308	9.0	6,064	6.6	236	0.3	2,149	2.3	2,151	2.3	0	0.0	92,054

9.59: Number of households receiving extension advice on Use of improved Bulls by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of household
	Government		NGO/Dev project		Cooperative		Large scale		Radio/TV/Newspape		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Chunya	3,122	89.3	125	3.6	0	0.0	125	3.6	0	0.0	125	3.6	0	0.0	3,497
Mbeya (R)	2,546	84.2	318	10.5	0	0.0	0	0.0	159	5.3	0	0.0	0	0.0	3,023
Kyela	4,289	90.5	0	0.0	0	0.0	113	2.4	226	4.8	113	2.4	0	0.0	4,740
Rungwe	15,510	93.8	612	3.7	0	0.0	0	0.0	204	1.2	204	1.2	0	0.0	16,530
Ileje	6,838	87.0	79	1.0	79	1.0	0	0.0	550	7.0	314	4.0	0	0.0	7,859
Mbozi	2,270	53.3	568	13.3	0	0.0	0	0.0	1,135	26.7	284	6.7	0	0.0	4,257
Mbarali	3,280	76.5	252	5.9	126	2.9	0	0.0	378	8.8	252	5.9	0	0.0	4,289
Mbeya Urban	1,924	76.1	189	7.5	0	0.0	38	1.5	113	4.5	189	7.5	75	3.0	2,528
Total	39,779	85.1	2,142	4.6	205	0.4	275	0.6	2,766	5.9	1,481	3.2	75	0.2	46,724

9.60: Number of households receiving extension advice on Livestock Feeds processing by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Chunya	6,120	90.7	250	3.7	0	0.0	0	0.0	125	1.9	250	3.7	0	0.0	6,744
Mbeya (R)	3,660	71.9	637	12.5	159	3.1	0	0.0	0	0.0	637	12.5	0	0.0	5,092
Kyela	4,289	90.5	0	0.0	0	0.0	226	4.8	113	2.4	113	2.4	0	0.0	4,740
Rungwe	18,162	88.1	408	2.0	0	0.0	0	0.0	408	2.0	1,224	5.9	408	2.0	20,611
Ileje	7,781	87.6	79	0.9	0	0.0	0	0.0	550	6.2	472	5.3	0	0.0	8,881
Mbozi	11,635	85.4	1,135	8.3	0	0.0	284	2.1	284	2.1	284	2.1	0	0.0	13,621
Mbarali	4,794	65.5	883	12.1	378	5.2	378	5.2	631	8.6	252	3.4	0	0.0	7,317
Mbeya Urban	1,660	66.7	340	13.6	0	0.0	151	6.1	151	6.1	151	6.1	38	1.5	2,490
Total	58,101	83.6	3,731	5.4	538	0.8	1,039	1.5	2,262	3.3	3,382	4.9	446	0.6	69,498

FISH FARMING

9.61: Total Number of Fish Harvested by Type and District, 2007/08 Agricultural Year

District	Number of fish harvested	Weight of fish harvested	Weight of Fish Sold
Mbeya (R)	308,713	2,228	1,273
Rungwe	24,489	2,449	1,020
Mbozi	5,676	11,351	0
Total	338,877	16,028	2,293

9.62: Number of Agricultural Households By level of care of fish ponds and District, 2007/08 Agricultural Year

District	Level of Dam Service			
	Meadium/Average	Low	Other	Total
Mbeya (R)	0	477	0	477
Rungwe	204	0	204	408
Mbozi	284	0	0	284
Total	488	477	204	1,169

BEE KEEPING

**9.63: Number of Agricultural Households involved in Honey Production/Collection and District, 2007/08
Agricultural Year**

District	Agricultural Households		Agricultural Households NOT		Total	
	Number	%	Number	%	Number	%
Chunya	1,499	3.0	49,081	97.0	50,580	100.0
Mbeya (R)	796	1.2	63,652	98.8	64,448	100.0
Kyela	0	.0	45,709	100.0	45,709	100.0
Rungwe	612	.7	82,037	99.3	82,649	100.0
Ileje	943	3.0	30,887	97.0	31,830	100.0
Mbozi	3,689	3.2	111,240	96.8	114,929	100.0
Mbarali	126	.2	50,969	99.8	51,095	100.0
Mbeya Urban	75	.6	13,508	99.4	13,584	100.0
Total	7,740	1.7	447,084	98.3	454,824	100.0

**9.64: Number of Agriculture Households Harvesting Honey by Type of Bee and District during the 2007/08
Agriculture Year**

District	Stingless Bee					Stingbee				
	Yes	%	No	%	Total	Yes	%	No	%	Total
Chunya	0	0.0	125	100.0	125	1,499	100.0	0	0.0	1,499
Mbeya (R)	159	100.0	0	0.0	159	637	100.0	0	0.0	637
Kyela	0	0.0	0	0.0	0	0	0.0	0	0.0	0
Rungwe	204	100.0	0	0.0	204	408	100.0	0	0.0	408
Ileje	157	66.7	79	33.3	236	865	100.0	0	0.0	865
Mbozi	851	100.0	0	0.0	851	3,122	91.7	284	8.3	3,405
Mbarali	0	0.0	0	0.0	0	126	0.0	0	0.0	126
Mbeya Urban	0	0.0	38	100.0	38	38	100.0	0	0.0	38
Total	1,372	85.0	241	15.0	1,613	6,693	95.9	284	4.1	6,977

9.65: Number of Agricultural Households, type of bee Hives and type of bees and District , 2007/08 Agricultural Year

District	Number of Improved Bee Hives						Number of Local Bee Hives					
	Stingless Bee		Sting Bee		Total		Stingless Bee		Sting Bee		Total	
	No hhds	No	No hhds	No	No hhds	No	No hhds	No	No hhds	No Hives	No hhds	No Hives
Chunya	125	0	1,499	3,122	1,624	3,122	125	0	1,499	124,389	1,624	124,389
Mbeya (R)	159	0	637	3,183	796	3,183	159	12,730	637	15,754	796	28,484
Rungwe	204	0	408	1,020	612	1,020	204	408	408	1,020	612	1,429
Ileje	236	0	865	236	1,100	236	236	2,201	865	7,073	1,100	9,274
Mbozi	851	568	3,405	1,419	4,257	1,986	851	2,270	3,405	25,256	4,257	27,526
Mbarali	0	.	126	0	126	0	0	.	126	252	126	252
Mbeya Urban	38	0	38	38	75	38	38	0	38	0	75	0
Total	1,613	568	6,977	9,018	8,590	9,585	1,613	17,609	6,977	173,745	8,590	191,354

9.66: Quantity of Honey Harvested and Sold by Size of Bees and District during the 2007/08 Agriculture Year

District	Stingless Bee				Bee				Total	
	Honey		Honey Sold		Honey Harvested		Honey Sold		Honey Sold	Honey Harvested
	Quantity	%	Quantity (lts)	%	Quantity (lts)	%	Quantity (lts)	%		
Chunya	749,331	64	0	0	422,123	36	287,243	100	287,243	1,171,454
Mbeya (R)	3,183	13	3,183	10	22,278	88	29,917	90	33,099	25,461
Kyela	0	0	0	0	0	0	0	0	0	0
Rungwe	2,245	10	1,837	13	20,407	90	12,244	87	14,081	22,652
Ileje	80,165	84	1,179	11	15,404	16	9,824	89	11,003	95,569
Mbozi	2,270	0	1,135	2	2,076,959	100	50,228	98	51,364	2,079,229
Mbarali	0	0	0	0	631	0	0	0	0	631
Mbeya Urban	0	0	755	100	113	100	0	0	755	113
Total	837,193	25	8,088	2	2,557,916	75	389,457	98	397,545	3,395,109

9.67: Average price of Honey (Tshs/litre) by Size of Bees and District during the 2007/08 Agriculture Year

District	Stingless Bee (Price per Litre)	Bee (Price per Litre)	Average Price Per Litre
Chunya	0	1,342	1,238
Mbeya (R)	1,000	2,675	2,340
Kyela			
Rungwe	1,350	2,500	2,117
Ileje	933	1,182	1,129
Mbozi	2,067	825	1,073
Mbarali	.	0.00	0
Mbeya Urban	2,000	0	1,000
Total	1,544	1,228	1,287

9.68: Number of Agriculture Households by Location of Selling Honey and District during the 2007/08 Agriculture Year

DISTRICT	Neighbour		Local market		Secondary market		Processing industry		Large scale farm	Trade at farm		Did not sell		Other		Total	
	Stingle	Sting	Stingless	Sting	Stingless	Sting	Stingless	Sting		Stingless	Stingless	Sting	Stingle	Sting	Stingless	Sting	Stingles
Chunya	0	1,124	0	0	0	0	0	0	125	250	0	125	0	0	0	125	1,499
Mbeya (R)	159	318	0	159	0	0	0	0	0	0	0	0	159	0	0	159	637
Kyela	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rungwe	204	204	0	0	0	0	0	0	0	204	0	0	0	0	0	204	408
Ileje	79	314	157	393	0	0	0	0	0	0	0	0	157	0	0	236	865
Mbozi	568	1,703	0	284	284	0	0	0	0	0	0	284	1,135	0	0	851	3,405
Mbarali	0	0	0	0	0	0	0	0	0	0	0	0	126	0	0	0	126
Mbeya Urba	38	0	0	0	0	0	0	0	0	0	0	0	38	0	0	38	38
Total	1,047	3,663	157	836	284	0	0	0	125	454	0	409	1,615	0	0	1,613	6,977

HOUSEHOLD FACILITIES

10.1: Number of households reporting average number of rooms and type of Roofing Materials and District, 2007/08 Agricultural Year

District	Number of rooms	Iron Sheets		Tiles		Concrete		Asbestos		Grass/leaves.		Grass & mud..		Other (Specify)		Total	
	Mean	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	3	27,600	55	0	0	0	0	375	1	21,106	42	1,499	3	0	0	50,580	100
Mbeya (R)	3	49,171	76	159	0	0	0	477	1	12,571	20	1,273	2	796	1	64,448	100
Kyela	2	24,039	53	677	1	226	0	2,031	4	18,171	40	564	1	0	0	45,709	100
Rungwe	2	48,773	59	204	0	0	0	408	0	32,244	39	1,020	1	0	0	82,649	100
Ileje	3	19,019	60	314	1	0	0	157	0	11,632	37	707	2	0	0	31,830	100
Mbozi	2	77,187	67	568	0	0	0	284	0	32,067	28	4,824	4	0	0	114,929	100
Mbarali	2	20,312	40	0	0	0	0	1,892	4	25,484	50	3,406	7	0	0	51,095	100
Mbeya Urban	3	12,490	92	0	0	38	0	0	0	1,057	8	0	0	0	0	13,584	100
Total	2	278,593	61	1,922	0	263	0	5,625	1	154,331	34	13,294	3	796	0	454,824	100
%		61		0.4		0.1		1		34		3		0		100	

10.2: Number of households by type of Floor Materials and Region, 2007/08 Agricultural Year

District	Number of rooms	Earth, Sand, Dung		Wood Planks, Bamboo, Palm.		Parquet Or Polished Wood		Ceramic Tiles, Terrazzo		Cement		8		Total	
	Mean	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	3	39,090	77	375	1	125	0	250	0	10,740	21	0	0	50,580	100
Mbeya (R)	3	50,603	79	1,910	3	637	1	159	0	11,139	17	0	0	64,448	100
Kyela	2	32,955	72	1,129	2	113	0	226	0	11,173	24	113	0	45,709	100
Rungwe	2	68,977	83	816	1	1,020	1	0	0	11,836	14	0	0	82,649	100
Ileje	3	26,329	83	472	1	0	0	79	0	4,951	16	0	0	31,830	100
Mbozi	2	86,836	76	2,554	2	0	0	1,135	1	24,405	21	0	0	114,929	100
Mbarali	2	37,470	73	505	1	126	0	252	0	12,742	25	0	0	51,095	100
Mbeya Urban	3	7,094	52	0	0	75	1	0	0	6,415	47	0	0	13,584	100
Total	2	349,353	77	7,759	2	2,096	0	2,101	0	93,402	21	113	0	454,824	100
		76.8		1.7		0.5		0.5		20.5		0.0		100	

10.3: Number of households by type of Wall Materials and District, 2007/08 Agricultural Year

District	Number of room	Type of Wall materials														Total	
		Grass		Poles And Mud		Sun-Dried Bricks		Baked Bricks		Wood, Timber		Cement Blocks		Other (specify)		Number	%
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%		
Chunya	3	1,499	3	9,492	19	19,982	40	19,358	38	125	0	125	0	0	0	50,580	100
Mbeya (R)	3	1,910	3	2,228	3	24,824	39	33,895	53	159	0	1,432	2	0	0	64,448	100
Kyela	2	9,367	20	7,449	16	113	0	28,554	62	0	0	226	0	0	0	45,709	100
Rungwe	2	3,265	4	11,632	14	54,487	66	12,040	15	408	0	612	1	204	0	82,649	100
Ileje	3	157	0	865	3	2,201	7	28,293	89	157	0	79	0	79	0	31,830	100
Mbozi	2	2,270	2	4,540	4	7,378	6	99,038	86	284	0	1,419	1	0	0	114,929	100
Mbarali	2	1,640	3	13,247	26	15,518	30	20,312	40	0	0	252	0	126	0	51,095	100
Mbeya Urban	3	566	4	2,113	16	6,075	45	4,377	32	264	2	189	1	0	0	13,584	100
Total	2	20,674	5	51,565	11	130,578	29	245,867	54	1,397	0	4,333	1	409	0	454,824	100
%		4.5		11.3		28.7		54.1		0.3		1.0		0.1		100	

10.4: Number of Agricultural Households reporting ownership of Assets by District, 2007/08 Agricultural Year

District	Radio/cassette, music system			Telephone (landline)			Telephone (mobile)			Pressing Iron			Wheelbarrow		
	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
Chunya	39,215	11,365	50,580	749	49,830	50,580	18,483	32,096	50,580	19,233	31,347	50,580	2,748	47,832	50,580
Mbeya (R)	39,942	24,506	64,448	318	64,130	64,448	13,367	51,081	64,448	16,709	47,739	64,448	3,660	60,788	64,448
Kyela	27,199	18,509	45,709	113	45,596	45,709	12,415	33,294	45,709	13,543	32,165	45,709	1,580	44,129	45,709
Rungwe	44,692	37,958	82,649	612	82,037	82,649	20,203	62,446	82,649	20,203	62,446	82,649	4,490	78,160	82,649
Ileje	21,141	10,689	31,830	393	31,437	31,830	5,659	26,171	31,830	8,016	23,814	31,830	629	31,201	31,830
Mbozi	75,768	39,161	114,929	851	114,078	114,929	26,675	88,254	114,929	28,094	86,836	114,929	4,824	110,105	114,929
Mbarali	39,867	11,228	51,095	1,009	50,086	51,095	21,573	29,522	51,095	14,635	36,460	51,095	4,416	46,679	51,095
Mbeya Urban	10,754	2,830	13,584	151	13,433	13,584	6,452	7,132	13,584	5,509	8,075	13,584	2,151	11,433	13,584
Total	298,578	156,246	454,824	4,197	450,627	454,828	124,827	329,996	454,824	125,942	328,882	454,824	24,497	430,328	454,824

cont... 10.4: Number of Agricultural Households reporting ownership of Assets by Region, 2007/08 Agricultural Year

District	Bicycle			Vehicle			Television			Refrigerator			Motor Cycle		
	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
Chunya	30,847	19,732	50,580	3,122	47,458	50,580	2,373	48,207	50,580	624	49,955	50,580	1,374	49,206	50,580
Mbeya (R)	19,255	45,193	64,448	3,183	61,265	64,448	1,114	63,334	64,448	159	64,289	64,448	637	63,811	64,448
Kyela	27,764	17,945	45,709	564	45,144	45,709	903	44,806	45,709	677	45,031	45,709	339	45,370	45,709
Rungwe	18,775	63,875	82,649	1,837	80,813	82,649	1,429	81,221	82,649	612	82,037	82,649	816	81,833	82,649
Ileje	8,802	23,028	31,830	393	31,437	31,830	472	31,359	31,830	79	31,751	31,830	157	31,673	31,830
Mbozi	54,201	60,728	114,929	4,257	110,673	114,929	2,554	112,375	114,929	568	114,362	114,929	1,703	113,227	114,929
Mbarali	28,765	22,330	51,095	4,920	46,175	51,095	1,388	49,707	51,095	883	50,212	51,095	1,009	50,086	51,095
Mbeya Urban	5,396	8,188	13,584	792	12,792	13,584	604	12,980	13,584	491	13,093	13,584	302	13,282	13,584
Total	193,805	261,019	454,824	19,068	435,756	454,824	10,835	443,989	454,824	4,093	450,731	454,824	6,336	448,488	454,824

10.5: Number of Agricultural Households Reporting Main Source of Energy for Lighting by District, 2007/08 Agricultural Year

District	Mains electricity		Solar		Gas (hh biogas)		Hurican Lamp		Pressure Lamp		Wick Lamp		Candles		Fire Wood		Other (specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	1,998	4	250	0	0	0	21,106	42	4,746	9	21,731	43	250	0	250	0	250	0	50,580	100
Mbeya (R)	955	1	0	0	0	0	12,890	20	1,432	2	48,535	75	318	0	159	0	159	0	64,448	100
Kyela	564	1	113	0	0	0	15,236	33	1,580	3	27,425	60	113	0	677	1	0	0	45,709	100
Rungwe	1,429	2	408	0	0	0	23,877	29	3,265	4	53,059	64	204	0	408	0	0	0	82,649	100
Ileje	314	1	314	1	0	0	8,252	26	1,257	4	21,456	67	0	0	157	0	79	0	31,830	100
Mbozi	1,135	1	1,135	1	0	0	35,472	31	3,689	3	67,539	59	0	0	3,689	3	2,270	2	114,929	100
Mbarali	1,009	2	378	1	0	0	29,395	58	883	2	18,798	37	0	0	631	1	0	0	51,095	100
Mbeya Urba	1,207	9	0	0	38	0	6,641	49	302	2	5,245	39	38	0	113	1	0	0	13,584	100
Total	8,612	2	2,599	1	38	0	152,869	34	17,155	4	263,787	58	923	0	6,084	1	2,758	1	454,824	100

10.6: Number of Agricultural Households Reporting Main Source of Energy for Cooking by District, 2007/08 Agricultural Year


District	Mains electricity		Solar		Gas (hh biogas)		Bottled gas		Paraffin/kerocine.		Charcoal		Firewood		Crop Residues		Livestock dung		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	0	0	125	0	0	0	0	0	0	0	3,122	6	47,083	93	250	0	0	0	50,580	100
Mbeya (R)	0	0	0	0	0	0	0	0	0	0	477	1	61,583	96	2,387	4	0	0	64,448	100
Kyela	0	0	0	0	113	0	0	0	113	0	3,273	7	42,210	92	0	0	0	0	45,709	100
Rungwe	408	0	204	0	0	0	0	0	0	0	1,224	1	80,813	98	0	0	0	0	82,649	100
Ileje	79	0	0	0	0	0	157	0	0	0	393	1	31,201	98	0	0	0	0	31,830	100
Mbozi	0	0	284	0	0	0	284	0	284	0	5,108	4	108,686	95	284	0	0	0	114,929	100
Mbarali	252	0	0	0	0	0	378	1	0	0	1,514	3	48,572	95	378	1	0	0	51,095	100
Mbeya Urb	38	0	38	0	0	0	0	0	38	0	1,509	11	11,886	88	38	0	38	0	13,584	100
Total	777	0	650	0	113	0	819	0	434	0	16,621	4	432,035	95	3,337	1	38	0	454,824	100

10.7: Number of Agricultural Households Reporting Time Spent to and from Main Source of Drinking Water during Wet Season by District, 2007/08 Agricultural Year

District	Less than 10 Minutes		10 - 19 Minutes		20 - 29 Minutes		30 - 39 Minutes		40 - 49 Minutes		50 - 59 Minutes		Above 1 Hour		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Chunya	13,113	26	9,367	19	5,620	11	14,987	30	0	0	1,873	4	5,620	11	50,580	100
Mbeya (R)	21,483	33	9,548	15	9,548	15	7,161	11	4,774	7	4,774	7	7,161	11	64,448	100
Kyela	23,701	52	3,386	7	1,693	4	13,543	30	0	0	0	0	3,386	7	45,709	100
Rungwe	21,428	26	9,183	11	12,244	15	24,489	30	3,061	4	0	0	12,244	15	82,649	100
Ileje	15,326	48	4,716	15	2,358	7	5,894	19	0	0	1,179	4	2,358	7	31,830	100
Mbozi	34,053	30	4,257	4	12,770	11	51,080	44	0	0	0	0	12,770	11	114,929	100
Mbarali	28,386	56	0	0	1,892	4	13,247	26	0	0	1,892	4	5,677	11	51,095	100
Mbeya Urban	6,792	50	1,698	12	1,698	12	2,264	17	566	4	0	0	566	4	13,584	100
Total	164,281	36	42,154	9	47,823	11	132,665	29	8,401	2	9,719	2	49,782	11	454,824	100

APPENDIX III: QUESTIONNAIRE



UNITED REPUBLIC OF TANZANIA



ACLIF 1

Page Number..... out of.....

Agriculture Sample Census 2007/08

Sub-village /ward leader listing from

Region _____ Code Ward _____ Code


District _____ Code Village _____ Code

Sub village leader Number	Name of Ward village leader	Number of Households		Comments
		Form Office Register	After enumeration	
(1)	(2)	(3)	(4)	(5)
<input type="text"/> <input type="text"/> <input type="text"/>		<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	
<input type="text"/> <input type="text"/> <input type="text"/>		<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	
<input type="text"/> <input type="text"/> <input type="text"/>		<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	
<input type="text"/> <input type="text"/> <input type="text"/>		<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	

UNITED REPUBLIC OF TANZANIA



CONFIDENTIAL

ACLF 2



Page Number out of

Agriculture Sample Census 2007/08

Household listing from-for listing hh heads and agriculture activities

Region _____ Code

District _____ Code

Ward _____ Code

Village _____ Code

Name of sub-village leader _____


Name of sub-village _____

Household number	Household head name	Number of										If the Response %	Farmer Serial Number
		Fields a	Cattle			Goats	Sheep	Pigs	Kuku/Baka'	Rabbit			
			Total	Bulls	Cows						Calves		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)



UNITED REPUBLIC OF TANZANIA

CONFIDENTIAL

ACLF 3



National Agriculture Sample Census 2007/08

Household listing for 15 selected farmers





Region _____ Code Ward : _____ code

District _____ Code Village _____ code

Namba Sawla _____

Hata _____

S/N	Sub-village leader Number	Name of sub-village leader	Name of selected head of household	Name of household head	Number of					
					Field	Cattle	Goat	Sheep	Pigs	Poultry
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

United Republic of Tanzania							
	CONFIDENTIAL						
Small holder/Small Scale Farmer questionnaire							
Identification <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>							
Agricultural Sample Census 2007/2008							
							
							
Enumerator Name	Signature						
Date of Enumeration							
<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> d d m m y y y y	Start Time						
	End Time						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Hour</th> <th style="width: 50%;">Minutes</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><input type="text"/> <input type="text"/></td> <td style="text-align: center;"><input type="text"/> <input type="text"/></td> </tr> <tr> <td style="text-align: center;"><input type="text"/> <input type="text"/></td> <td style="text-align: center;"><input type="text"/> <input type="text"/></td> </tr> </tbody> </table>		Hour	Minutes	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
Hour	Minutes						
<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>						
<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>						
Field level checking by:							
District Supervisor	<i>To be filled by the supervisor ONLY after Field/farm level checking of the enumeration process. This should be countersigned by the Supervisor in front of the enumerator</i>						
Name Signature Date / /							
Regional Supervisor Name Signature Date / /							
National Supervisor Name Signature Date / /							
District checking in Office							
District Supervisor Name Signature Date / /	<i>All questionnaires must be checked at the district office.</i>						
For Use at Regional Level Only							
Data entered by: Name Signature Date / /	<i>See the back page for details of queries</i>						
Quered Name Signature Date / /							
Ministry of Agriculture and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Administration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Government of Zanzibar							

1.0 IDENTIFICATION DETAILS		
1.1 Location		
S/N	Location Name	Codes
1.1.1	Region	<input type="text"/>
1.1.2	District	<input type="text"/>
1.1.3	Ward/Shehia	<input type="text"/>
1.1.4	Village/EA	<input type="text"/>
1.2 Details of the respondent and household head		
S/N		Codes
1.2.1	Name & number of local leader	<input type="text"/>
1.2.2	Name & number of household head	<input type="text"/>
1.2.3	Sex of household head (Male = 1, Female = 2) [REDACTED]	<input type="text"/>
1.2.4	Name of respondent	[REDACTED]
1.2.5	Relationship of Respondent to Household Head [REDACTED]	<input type="text"/>
<p>Relationship to household head codes (Q1.2.5) Head of Household.....1 Son/Daughter3 Grandson/Granddaughter5 Spouse2 Father/Mother4 Other relative.....6 Not Related.....8</p>		

2.0 ACTIVITIES OF THE HOUSEHOLD	
2.1	Type of Agricultural Household <input type="checkbox"/>
<p>Agriculture household codes(Q2.1) Crops only.....1 Livestock only2 Pastoralist.....3 Crops and Livestock4</p>	

<p>Definition and working page for page 1</p> <p>General Definitions</p> <p>Small holder hh/small scale farm: Should have between 25sq metres and 20 Hectares under production, and/or between 1 and 50 head of Cattle, and/or between 5 and 100 head of Sheep/Goats/Pigs, and/or between 50 and 1000 chickens/turkeys/ducks/rabbits.</p> <p>Household: A group of people who occupy the whole or part of one or more housing units and makes joint provisions for food and/or other essentials for living.</p> <p>Household Head: A person who is acknowledged by all other members of the household either by virtue of his age or standing in the household as the head.</p> <p>Agricultural Holding: This is an economic unit of agricultural production under single management. It consists of all livestock kept and all land used for agricultural production without regard to title. For the purpose of this survey, the agricultural holdings are restricted to those which meet one of the following conditions: - Having or operated at least 25 sq meter of arable land - Own or keep at least one head of cattle or five goats/sheep/pigs or fifty chicken/ducks/turkeys during the agricultural year 2007/08 (October 2007 to September 2008).</p>	
<p>Question Specific Definitions:</p> <p>Type of Agriculture Holdings Codes (Q2.1):</p> <ul style="list-style-type: none"> - Crops only: A holding is referred to be a crops only holding if it has cultivated a piece of land equal or exceeding 25 sq Meter. This also applies to all households owning or have kept livestock whose number does not qualify such household to be an agricultural holding (No cattle, less than 5 goats/sheep/pigs, less than 50 chickens/turkeys/ducks/rabbits) - Livestock only: A holding is referred to be a Livestock only holding if it has exercised Livestock husbandry only during the reference agricultural year. The number of livestock has to be at least 1 head of cattle, 5 goats/sheep/pigs or 50 chickens/turkeys/ducks/rabbits. This also applies to all households owning or have cultivated a piece of land less than 25 sq meter, which does not qualify such household be an agricultural holding. - Both crops and livestock: A holding is referred to be a both crops and livestock if it has cultivated a piece of land equal or exceeding 25 sq meter and if such households is owning or have kept livestock whose number qualify such household be an agricultural holding. - Livestock pastoralism: This refers to a household which practices livestock production as its major income generating activity and a means of subsistence, but moves from one place to another searching for water and pasture for the livestock. This movement usually involves long distances and in many cases the whole household unit moves with the livestock and they have no permanent place of residence. 	<p>Procedures for Question s:</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Q 2.1 Type of agriculture household/holding</p> <p>1. Using the options under the question classify the type of agriculture hh/holding</p> <p>Note: If the hh had 1 acre of crops and raised 40 chickens during 2007/08 it is classified as 'Crops only' as the number of chickens do not qualify the hh as keeping livestock.</p> </div>

3.0 HOUSEHOLD INFORMATION

3.1 Give details of personal particulars of all household members beginning with the head of the household

S/N	Names of household members	Relation-ship to head	Sex M=1 F=2	Age (if age is 98 or above then write 97)	Survival of Parents		Not applicable for children under 5 years of age					
					Mo-ther	Fa-ther	Read & Write	Edu-cation Status	Education Level reached	Involvement in farming	Main activity (for aged 5 & above)	Off-farm Income Yes=1 No=2
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
3.1.1	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Relation to head (Col 2)**
- Head of household1
 - Spouse2
 - Son/daughter3
 - Father/Mother4
 - Grandson/granddaughter5
 - Other Relative6
 - Not Related8

- Education Status (Col 8)**
- Attending School1
 - Completed2
 - Never attended School3

- Involvement in farming activities (Col 10)**
- Works full time on farm1
 - Works part-time on farm2
 - Rarely works on farm3
 - Never works on farm4

- Main activity (Col 11)**
- Crop Farming01
 - Livestock Keeping/Herding02
 - Livestock Pastoralism03
 - Fishing04
 - Paid employment:
 - Government/parastatal05
 - Private- NGO/mission/etc06
 - Self employed (non farming)
 - with employees07
 - without employees08
 - Unpaid family helper (non agriculture)09
 - Not working & available10
 - Not working & unavailable11
 - Housemaker/housewife12
 - Student13
 - Unable to work too old/ Retired/sick/disabled)14
 - Other (Specify)08

- Education Level Reached (Col 9)**
- | Primary Education | | Secondary Education | |
|--|---|---------------------|--|
| Under Standard One00 | Form one11 | Form two12 | |
| Standard One01 | Form three13 | | |
| Standard Two02 | Form four14 | | |
| Standard Three03 | Form five15 | | |
| Standard Four04 | Form six16 | | |
| Standard Five05 | Training after Secondary Education17 | | |
| Standard Six06 | University & other tertiary Education18 | | |
| Standard Seven07 | Adult Education19 | | |
| Standard Eight08 | Not applicable99 | | |
| Training after Primary Education09 | | | |
| Pre-Form One10 | | | |

- Survival of Parents (Col 5 & 6)**
- Yes1
 - No2
 - Don't know3

- Read & Write (Col 7)**
- Swahili1
 - English2
 - Swahili & English3
 - Any other language4
 - Don't Read/Write5

Definition and working page for page 2**Question Specific Definitions:****Relation to head of household (Col 2):**

- **Household Head** : A person who is acknowledged by all other members of the household either by virtue of their age or standing as the household head.

Read and Write (Col 7):

- **Any other language**: Must be a written language.

For someone who can read and write in Swahili and any other language apart from English, the correct code is 1. For one who can read and write in English and any other language apart from Swahili the correct code is 2. Code 4 should only be used for other language but not English or Swahili

Education Level Reached (Col 9):

Indicate the highest level only. For those still attending school fill in the last year reached before the survey period. For example if a hh member is in standard 7 this year his highest grade reached is standard 6

Main Activity (Col 11):

- **Crop farming**: The persons main activity is crop production. This can be annual crops, vegetables, permanent crops or tree farming.

- **Livestock farming/herding**: The persons main activity is livestock farming/herding. The livestock can be herded in search for areas of pasture, but the core household unit always remains in the same place and the herder is rarely away from this place for long periods at a time.

- **Livestock pastoralism**: The persons main activity is in moving livestock from one place to another searching for water and pasture for the livestock. This movement usually involves long distances and in many cases the whole household unit moves with the livestock and they may have no permanent place of residence.

- **Paid employment** - In full time employment earning a cash income

- Government/Parastatal - In full time employment for a government Ministry, Department or Board that is controlled by the Government

- Private/NGO/Mission/etc - employed by Non public/government organisation

- **Self employee** - works for own business for cash income

- With employees - Works for own business for cash and employs other workers

- Without employees - Works for own business for cash but does not employ other workers

- **Not working but available to work** - No productive activity but would like to have one.

- **Not working & nor available for work** - No productive activity and does not want to have one.

Off-farm Income (Col 12) - Income made from activities NOT on the HH's farming activities. This can be any off farm income generation activity and includes working for cash on other people's farms.

Indicate whether each member was involved in an off farm income generating activity during 2007/08

Overview to section 3.0**Section 3.0 - Preliminary note**

1. Make sure that you define the hh properly to ensure that all the members of the hh are included. Make sure you stress that the hh is not just the hh heads direct family and that it includes other people living and eating together with the family.

2. If you notice that his house is large or you see many people around his house and he has only given you small number of hh members enquire further until you are sure that you have captured all the hh members.

Procedures for questions**Section 3.0 - Household Information**

1. For each household member complete columns 1, 2 & 3.

2. After completing columns 1, 2 & 3 for each household member go back to the first household member.

3. Complete the remaining columns for that member.

4. Repeat step 3 for the rest of the household members

4.0 LAND ACCESS AND USE			
4.1 LAND ACCESS/OWNERSHIP/TENURE		Details of area "owned" by the household in the 2007/08 agricultural year. Give area reported by the respondent in "acres".	
		Area in Acres	
4.1.1	Area Leased/Certificate of ownership	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	4.1.8 Was all land available to the hh used during 2007/08? (Yes=1, No=2) <input type="checkbox"/>
4.1.2	Area owned under Customary Law	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.1.3	Area Bought from others	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.1.4	Area Rented from others	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	4.1.9 Do you consider that you have sufficient land for the hh? (Yes=1, No=2) <input type="checkbox"/>
4.1.5	Area Borrowed from others	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.1.6	Area Share -cropped from others	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.1.7	Area under Other forms of tenure	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	4.1.10 Do any female members of the hh own or have customary right to land? (Yes=1, No=2) <input type="checkbox"/>
Total area		<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2 LAND USE		Area operated by household under different forms of land use during 2007/08 agriculture year. Give area reported by the respondent in "acres".	
		Area in Acres	
		Calculation area	
4.2.1	Area under Temporary Mono-crops	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.2	Area under Temporary Mixed crops (eg Maize & beans)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.3	Area under Permanent Mono-crops	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.4	Area under Permanent Mixed crops (eg bananas, coffee & trees)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.5	Area under Permanent/temporary mix (eg bananas & maize)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.6	Area under Pasture	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.7	Area under Fallow	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.8	Area under Natural Bush	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.9	Area under Planted Trees	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.10	Area Rented to others	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.11	Area Unusable	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.12	Area of Uncultivated Usable land (excluding fallow)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
Total area		<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	

Question Specific Definitions	Overview to section 4
<p>Section 4.1 - Land Access/Ownership</p> <p>Lease/Certificate of Ownership Area under lease/certificate of ownership refers to the area for which the household possesses a government issued leasehold title or certificate of ownership. The land will normally be officially surveyed and boundaries marked. This includes leased land bought from others where the lease/certificate of ownership has been transferred.</p> <p>Customary Law: This refers to the land which the hh does not have an official government title to but its right of use is granted by the traditional leaders. This user-right agreement does not have to be granted directly by the village leaders as right of access may be passed on through heredity.</p> <p>Bought: This refers to the area of customary land that has been bought from others. This land does not have an official title and therefore is not leasehold.</p> <p>Rented from others: Land rented from others for Cash or for a fixed amount in crop produce (eg fixed number of bags at harvest).</p> <p>Borrowed: Use granted by land owner free of charge. Land owner can either be a lease holder or has right of access through customary law.</p> <p>Share Cropping: where the hh is permitted to use land which is then paid for from a percentage of the harvested crop.</p>	<p>Section 4.0 - Land Ownership</p> <ol style="list-style-type: none"> 1. Ask the respondent if he knows the total area of land the household has sole access to. If he knows make a note in the calculation space 2. Ask the respondent the area of the different land ownership categories the household has sole access to (Q4.1.1 to 4.1.7) and record in the appropriate spaces. 3. Add up the area of the different categories of land and compare it with the total area obtained in step 1 (if the respondent provided the information). 4. If the total area is different find out which one is correct and make amendments where appropriate.
<p>Section 4.2 Land Use</p> <ul style="list-style-type: none"> - Temporary crops: are sown and harvested during the same agricultural year - Permanent crops: are sown or planted once and then , they occupy the land for some years and need not to be replanted after each annual harvest. Permanent crops are mainly trees (e.g., apples) but also bushes and shrubs (e.g., berries), palms (e.g., dates), vines (e.g., grapes), herbaceous stems (e.g., bananas) and stemless plants (e.g., pineapples). - Mixed Crops: This is a mixture of two or more crops planted together and mixed in the same plot/field. The two crops can either be randomly planted together or they can be planted in a particular pattern eg intercropping (1 row of maize and 1 row of beans). A field that has been divided into plots for different crops is not mixed. This is further subdivided into: <ul style="list-style-type: none"> Permanent Mixed -two or more permanent crops grown together, Permanent/Temporary Mix - permanent crop and annual crop together, Temporary Mixed - two or more temporary, annual crops grown together. - Pasture Land: This is an area of owned/allocated land which is set aside for livestock grazing. It can be improved pasture where the farmer has planted grass, applied fertilized or applied other production increasing technologies to improve the grazing. Or it can be rough pasture. - Fallow: This is the area of land that is normally used for crop production, but is not used for crop production during a year or a number of years. This is normally to allow for self generation of fertility/soil structure and is often an integral part of the crop rotation system. - Natural Bush: Land which is considered productive but is not under cultivation or used extensively for livestock production and has naturally growing shrubs and trees. - Planted trees: Land which is used for planting trees for poles or timber - Unusable: Land that is known to be non-productive for agriculture purposes Uncultivated Usable: This is land that was not used for reasons other than fallow. The reasons could be lack of inputs/money/rainfall/etc 	<p>Procedures for Questions</p> <p>Section 4.1 - Preliminary note</p> <p>Land Access/ Ownership</p> <p>Access/Ownership refers to the area utilized by the members of the household. This does not include communal land where the resources are shared between households. It does include official communal land that the hh has sole access to eg a plot for crop farming in the communal area.</p> <p>Section 4.2 - Land Use</p> <ol style="list-style-type: none"> 1. Ask the respondent the area of the different landuse categories the household has sole access to (Q4.2.1 to 4.2.12) and record in the appropriate spaces. 2. Add up the area of the different categories of land and compare it with the total area obtained in section 4.0. The total area should be the same. 3. If the total area is different find out which one is correct and make amendments where appropriate.

5.0	ANNUAL AND PERMANENT CROP PRODUCTION																					
5.1	ANNUAL CROP AND VEGETABLE PRODUCTION																					
	SHOR RAIN SEASON: Did the hh plant any crops during the Short Rainy season? (Yes = 1, No=2) <input style="float:right;" type="checkbox"/> If NO, go to section 5.2																					
5.1.1	For each crop planted during 2007/08 Short Rainy season provide the following information																					
	Planting			Inputs																		
Annual Crop Name	Crop Code	Actual Planted area (acres)	Who Own the most part of the land	Seeds Use					Irrigation Use	Fertilizer Use (If the answer is 6 in column 11, go to column 15)					Herbicides Use (If the answer is 6 in column 15, go to column 19)							
				Area Applied	Type of Seeds Planted	Quantity		Cost (Tshs)		Area Applied	Type of Fertilizer Used	Quantity (kg)	Cost (Tshs)	Area Applied	Quantity		Cost (Tshs)					
						Unit	Quantity used								Unit	Quantity used						
<i>(1)</i>	<i>(2)</i>	<i>(3)</i>	<i>(4)</i>	<i>(5)</i>	<i>(6)</i>	<i>(7)</i>	<i>(8)</i>	<i>(9)</i>	<i>(10)</i>	<i>(11)</i>	<i>(12)</i>	<i>(13)</i>	<i>(14)</i>	<i>(15)</i>	<i>(16)</i>	<i>(17)</i>	<i>(18)</i>					
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>						
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>						
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>						
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>						
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>						
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>						
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>						
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>						
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>						
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>						
Total Planted area		<input type="text"/>																				
<u>Who Own the most part of the land (Col 4)</u> Husband.....1 Wife.....2 Son.....3 Daughter.....4 Father of the Head HH.....5 Mother of the Head HH.....6 Other Relatives (Male).....7 Other Relatives (Female)..8			<u>Inputs use codes (Col 5)</u> Used for the whole crop1 Used on 3/4 of whole crop2 Used on 1/2 of whole crop3 Used on 1/4 of whole crop4 Used on less than 1/4 of whole crop ..5					<u>Type of Seeds Planted (Col 6)</u> Local Seeds.....1 Improved Seeds 2 <u>Unit (col 7)</u> Kilogram1 Seedlings2					<u>Inputs use codes (Col 10,11,15)</u> Used for the whole crop1 Used on 3/4 of whole crop2 Used on 1/2 of whole crop.....3 Used on 1/4 of whole crop4 Used on less than 1/4 of whole crop5 Not used6					<u>Type of fertilizer Col 12)</u> Organic.....1 Inorganic 2 <u>Unit (col 16)</u> Kilogram1 Litre.....2				

5.1 ANNUAL CROP AND VEGETABLE PRODUCTION (...CONTINUED)														
5.1.1 For each crop planted during 2007/08 Short Rainy season provide the following information														
Annual Crop Name	Crop Code	Fungicides Use (If the answer iis 6 in column 19, go to column 23)				Incecticides Use (If the answer iis 6 in column 23, go to column 27)				Harvesting and Storage			Marketing & Problems	
		Area Appl ied	Quantity		Cost (Tshs)	Area Appl ied	Quantity		Cost (Tshs)	Quantity harvested (Kgs)	Quantity Stored (kg)	Metho d of Storag e	Quantity sold (kgs)	Marketing Problems
			Unit	Quantity used			Unit	Quantity used						
(1)	(2)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)		(29)	(30)	(31)
.....														
.....														
.....														
.....														
.....														
.....														
.....														
.....														
.....														
.....														

<p>Inputs use codes (Col 19 & 23)</p> <p>Used for the whole crop1</p> <p>Used on 3/4 of whole crop2</p> <p>Used on 1/2 of whole crop.....3</p> <p>Used on 1/4 of whole crop4</p> <p>Used on less than 1/4 of whole crop5</p> <p>Not used6</p>	<p>Unit (col 20&24)</p> <p>Kilogram1</p> <p>Litre.....2</p>	<p>Main method of Storage (Col 29)</p> <p>In locally made traditional structure..1</p> <p>In Improved locally made structure .2</p> <p>In modern store3</p> <p>In Sacks/open drum.....4</p> <p>In airtight drum5</p> <p>Unprotected pile6</p> <p>Other (Specify).....8</p>	<p>Market problems (Col 35)</p> <p>Low market price01</p> <p>No transport02</p> <p>Transport cost too high03</p> <p>No buyer04</p> <p>Market too far05</p> <p>Farmer association problems ...06</p> <p>Cooperative Problems07</p> <p>Trade Union problems08</p> <p>Government Regulatory board problems.....09</p> <p>Lack of market Information10</p> <p>Other (specify)98</p> <p>Not Applicable99</p>
--	--	---	--

Definitions and working page					
Working table for the calculation of area occupied by annual crop in a mixture					
Crop mixture 1	Crop Name	Area of mix (acre)	Ground area/plant (ACRE)	Total no. of plants	Total ground area of plants (ACRES)
(a)	(b)	(c)	(d)	(e)	(f) = (d) x (e)
Permanent crop 1			0.000		0 .
Permanent crop 2			0.000		0 .
Permanent crop 3			0.000		0 .
Permanent crop 4			0.000		0 .
Total Area of Crop Mix			Total Area of permanent crops in mix		0 .
REMAINING AREA UNDER TEMPORARY CROPS					
				crop%	crop area
Temporary/permanent crop name 1					.
Temporary/permanent crop name 2					.
Temporary/permanent crop name 3					.
Total area check			Crop total check		

Definitions and working page					
Working table for the calculation of area occupied by annual crop in a mixture					
Crop mixture 2	Crop Name	Area of mix (acre)	Ground area/plant (ACRE)	Total no. of plants	Total ground area of plants (ACRES)
(a)	(b)	(c)	(d)	(e)	(f) = (d) x (e)
Permanent crop 1			0.000		0 .
Permanent crop 2			0.000		0 .
Permanent crop 3			0.000		0 .
Permanent crop 4			0.000		0 .
Total Area of Crop Mix			Total Area of permanent crops in mix		0 .
REMAINING AREA UNDER TEMPORARY CROPS					
				crop%	crop area
Temporary/permanent crop name 1					.
Temporary/permanent crop name 2					.
Temporary/permanent crop name 3					.
Total area check			Crop total check		

Actual Planted Area: The area in Acres the household was able to plant.
Area Harvested: The area in Acres that produced a harvest. This is the same as the area planted minus the area that was destroyed by major flood/pest/ animal/etc damage.

Temporary/Annual Crop:
 Crops which are planted and harvested within a period of 12 months after which time the plants die. Most annual crops are planted and harvested on a seasonal basis.

- Crop Codes (Cereals /tubers/roots):**
- Code Crop
 - 11 Maize
 - 12 Paddy
 - 13 Sorghum
 - 14 Bulrush Millet
 - 15 Finger Millet
 - 16 Wheat
 - 17 Barley
 - 22 Sweet Potatos
 - 23 Irish potatos
 - 24 Yams
 - 25 Cocoyams
 - 26 Onions
 - 27 Ginger

- Vegetable Codes:**
- Code Crop
 - 86 Cabbage
 - 87 Tomatoes
 - 88 Spinach
 - 89 Carrot
 - 90 Chillies
 - 91 Amaranths
 - 92 Pumpkins
 - 93 Cucumber
 - 94 Egg Plant
 - 95 Water Mellon
 - 96 Cauliflower
 - 06 Gourd
 - 05 Biter aubergine
 - 04 Tumeric
 - 03 Radish
 - 02 Ocra
 - 01 Munn Bean

- Crop Codes Legumes Oil & fruit:**
- Code Crop
 - 31 Beans
 - 32 Cowpeas
 - 33 Green gram
 - 35 Chick peas
 - 36 Bambara nuts
 - 37 Field peas
 - 41 Sunflower
 - 42 Simsim
 - 43 Groundnut
 - 47 Soyabeans
 - 48 Caster seed

- Cash Crop Codes:**
- Code Crop
 - 50 Cotton
 - 51 Tobacco
 - 53 Pyrethrum
 - 62 Jute
 - 19 Seaweed

Instructions for calculating the area of mixed crops in a mixture.

- A. If the mixed crop is mixed annual only enter the total area of the field in the REMAINING AREA UNDER TEMPORARY CROPS. and goto step 1 below of these instructions.
- B. If the mixed crop is mixed permanent and annual try to get the % occupied by the different crops and calculate the area of annual crops outlined in step 1. Otherwise use the number of trees method to calculate the area of annual crops in the mix, Step C
- C. Number of trees method to calculate annual crop areas in a peranent-annual crop mix/
 - (i) list each of the permanent crops in column b and enter the ground area per acre for each permanent crop (from instructions for page 8) in column 'd'.
 - (ii) obtain the number of permanent trees in the mix from the respondent and enter the number in column 'e'.
 - (iii) calculate the area occupied by each crop by multiplying column 'd' with column 'e' and sum these to obtain the total area of permanent crops in the mix.
 - (iv) subtract the total area of permanent crops in the mix from the total area of mix and enter the result in the total area under temporary crops.
 - (v) proceed to step 1 to calculate the area under each temporary crop.
1. Enter the name of each annual crop in the mix & estimate the percentage of each crop.
2. Using the percentages for each crop calculate the area of each crop from the REMAINING AREA UNDER TEMPORARY CROPS.
3. After completing this exercise for all fields, sum the area of each crop in the mix plus any monocrops and enter totals in section 5.1.1 col 3.
4. Once the quantity harvested is obtained calculate the Yield (Metric tonnes/acre) & compare the figure with the norms given in the crop codes box. If it is excessively different check the area and the amount harvested.

Definition and working page	
<p>Method of Storage (Section 5.1.1, Col 29)</p> <ul style="list-style-type: none"> - Locally made structure: The structures that have been inherited from their fore fathers - Improved locally made structure: Traditional structures that have been improved using modern technology. - Normal duration of storage: Often there are stored stocks from different seasons and different years. The normal duration refers to the number of months that the most of the crop is stored for. 	<p>Procedures for Questions</p> <p>Details of Crop Storage:</p> <ol style="list-style-type: none"> 1. For the crops listed indicate if the household stored any during 2007/08 in column 28. 2. For the listed crops give details of storage.
<p>Marketing problems Section 5.1.1, Col 31</p> <ul style="list-style-type: none"> - Farmer Association: A village or community based group of farmers who have formed an organisation to purchase inputs/sell/store their products in order to achieve a better price for their products. - Cooperative Union: Large inter-village /community organisation set up on a district/regional or national basis for providing inputs, marketing and storing farmers products. - Government Regulatory board: Government control body for setting prices and controlling quality of certain agriculture commodities. 	<p>Details on Crop Marketing:</p> <ol style="list-style-type: none"> 1. For each of the crops listed indicate the main problems in marketing during 2007/08. 2. Check if the crops correspond to the crop lists list in Q 5.1.1, 5.2.1 & 5.3.1. If there is a difference inquire on the reason why. It is possible that a crop was missed during the enumeration of these questions and if so make necessary amendments
<p>Farm Inputs Q. 5.1.1</p> <p>Pesticide: Chemical used to either protect the plant from or kill insects, birds, molluscs, mites, etc attacking the plant</p> <p>Fungicide: is a chemical that s used to protect the plant from or control a fungal disease.</p> <p>Herbicide: A chemical used to control weeds.</p>	
<p>Working Area/calculation space</p>	

5.2	ANNUAL CROP AND VEGETABLE PRODUCTION																		
	LONG RAINY SEASON: Did the hh plant any crops during the LONG Rainy season? (Yes = 1, No=2) <input type="checkbox"/>																		
	If NO, go to section 5.3																		
5.2.1	For each crop planted during 2007/08 Long Rainy season provide the following information																		
	Planting				Inputs														
Annual Crop Name	Crop Code	Actual Planted area (acres)	Who Own the most part of the land	Seeds Use				Irrigation Use	Fertilizer Use (If the answer is 6 in column 11, go to column 15)				Herbicides Use (If the answer is 6 in column 15, go to column 19)						
				Area Applied	Type of Seeds Planted	Quantity			Cost (Tshs)	Area Applied	Type of Fertilizer Used	Quantity (kg)	Cost (Tshs)	Area Applied	Quantity		Cost (Tshs)		
						Unit	Quantity used								Unit	Quantity used			
<i>(1)</i>	<i>(2)</i>	<i>(3)</i>	<i>(4)</i>	<i>(5)</i>	<i>(6)</i>	<i>(7)</i>	<i>(8)</i>	<i>(9)</i>	<i>(10)</i>	<i>(11)</i>	<i>(12)</i>	<i>(13)</i>	<i>(14)</i>	<i>(15)</i>	<i>(16)</i>	<i>(17)</i>	<i>(18)</i>		
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>		
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>		
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>		
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>		
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>		
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>		
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>		
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>		
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>		
.....	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>		
Total Planted area	<input type="text"/>																		
<u>Who Own the most part of the land (Col 4)</u> Husband.....1 Wife.....2 Son.....3 Daughter.....4 Father of the Head HH.....5 Mother of the Head HH.....6 Other Relatives (Male).....7 Other Relatives (Female)..8				<u>Inputs use codes (Col 5)</u> Used for the whole crop1 Used on 3/4 of whole crop2 Used on 1/2 of whole crop.....3 Used on 1/4 of whole crop4 Used on less than 1/4 of whole crop ..5				<u>Type of Seeds Planted (Col 6)</u> Local Seeds.....1 Improved Seeds 2 <u>Unit (col 7)</u> Kilogram1 Seedlings2				<u>Inputs use codes (Col 10,11,15)</u> Used for the whole crop1 Used on 3/4 of whole crop2 Used on 1/2 of whole crop.....3 Used on 1/4 of whole crop4 Used on less than 1/4 of whole crop5 Not used6				<u>Type of fertilizer (Col 12)</u> Organic1 Inorganic 2 <u>Unit (col 16)</u> Kilogram1 Litre.....2			

5.2 ANNUAL CROP AND VEGETABLE PRODUCTION (...CONTINUED)

5.2.1 For each crop planted during 2007/08 Long Rainy season provide the following information

Annual Crop Name	Crop Code	Fungicides Use (If the answer is 6 in column 19, go to column 23)				Insecticides Use (If the answer is 6 in column 23, go to column 27)				Harvesting & Storage			Marketing & Problems	
		Area Applied	Quantity		Cost (Tshs)	Area Applied	Quantity		Cost (Tshs)	Quantity harvested (Kgs)	Method of Storage	Quantity sold (kgs)	Marketing Problems	
			Unit	Quantity used			Unit	Quantity used						
(1)	(2)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(29)	(30)	(31)	
.....														
.....														
.....														
.....														
.....														
.....														
.....														
.....														
.....														
.....														

<p>Unit (col 20&24) Kilogram1 Litre2</p>	<p>Inputs use codes (Col 19 & 23) Used for the whole crop1 Used on 3/4 of whole crop2 Used on 1/2 of whole crop3 Used on 1/4 of whole crop4 Used on less than 1/4 of whole crop5 Not used6</p>	<p>Market problems (Col 35) Low market price01 Cooperative Problems07 No transport02 Trade Union problems08 Transport cost too high03 Government Regulatory board problems.....09 No buyer04 Lack of market Information10 Market too far05 Other (specify)98 Farmer association problems ...06 Not Applicable99</p>	<p>Main method of Storage (Col 29) In locally made traditional structure..1 In Improved locally made structure .2 In modern store3 In Sacks/open drum.....4 In airtight drum5 Unprotected pile6 Other (Specify).....8</p>
---	---	--	---

Definitions and working page					
Working table for the calculation of area occupied by annual crop in a mixture					
Crop mixture 1	Crop Name	Area of mix (acre)	Ground area/plant (ACRE)	Total no. of plants	Total ground area of plants (ACRES)
(a)	(b)	(c)	(d)	(e)	(f) = (d) x (e)
Permanent crop 1			0.000		0 .
Permanent crop 2			0.000		0 .
Permanent crop 3			0.000		0 .
Permanent crop 4			0.000		0 .
Total Area of Crop Mix			Total Area of permanent crops in mix		0 .
REMAINING AREA UNDER TEMPORARY CROPS					
			crop%	crop area	
Temporary/permanent crop name 1					
Temporary/permanent crop name 2					
Temporary/permanent crop name 3					
Total area check			Crop total check		

Crop mixture 2	Crop Name	Area of mix (acre)	Ground area/plant (ACRE)	Total no. of plants	Total ground area of plants (ACRES)
(a)	(b)	(c)	(d)	(e)	(f) = (d) x (e)
Permanent crop 1			0.000		0 .
Permanent crop 2			0.000		0 .
Permanent crop 3			0.000		0 .
Permanent crop 4			0.000		0 .
Total Area of Crop Mix			Total Area of permanent crops in mix		0 .
REMAINING AREA UNDER TEMPORARY CROPS					
			crop%	crop area	
Temporary/permanent crop name 1					
Temporary/permanent crop name 2					
Temporary/permanent crop name 3					
Total area check			Crop total check		

Actual Planted Area: The area in Acres the household was able to plant.
Area Harvested: The area in Acres that produced a harvest. This is the same as the area planted minus the area that was destroyed by major flood/pest/ animal/etc damage.

Temporary/Annual Crop:
 Crops which are planted and harvested within a period of 12 months after which time the plants die. Most annual crops are planted and harvested on a seasonal basis.

Crop Codes (Cereals /tubers/roots):
 Code Crop
 11 Maize
 12 Paddy
 13 Sorghum
 14 Bulrush Millet
 15 Finger Millet
 16 Wheat
 17 Barley
 22 Sweet Potatos
 23 Irish potatoes
 24 Yams
 25 Cocoyams
 26 Onions
 27 Ginger

Vegetable Codes:
 Code Crop
 86 Cabbage
 87 Tomatoes
 88 Spinach
 89 Carrot
 90 Chillies
 91 Amaranths
 92 Pumpkins
 93 Cucumber
 94 Egg Plant
 95 Water Mellon
 96 Cauliflower
 06 Gourd
 05 Biter aubergine
 04 Tumeric
 03 Radish
 02 Ocra
 01 Mung Bean

Crop Codes Legumes Oil & fruit:
 Code Crop
 31 Beans
 32 Cowpeas
 33 Green gram
 35 Chick peas
 36 Bambara nuts
 37 Field peas
 41 Sunflower
 42 Simsim
 43 Groundnut
 47 Soyabeans
 48 Caster seed

Cash Crop Codes:
 Code Crop
 50 Cotton
 51 Tobacco
 53 Pyrethrum
 62 Jute
 19 Seaweed

Instructions for calculating the area of mixed crops in a mixture.

- If the mixed crop is mixed annual only enter the total area of the field in the REMAINING AREA UNDER TEMPORARY CROPS, and goto step 1 below of these instructions.
- If the mixed crop is mixed permanent and annual try to get the % occupied by the different crops and calculate the area of annual crops outlined in step 1. Otherwise use the number of trees method to calculate the area of annual crops in the mix, Step C
- Number of trees method to calculate annual crop areas in a perant-annual crop mix/
 - list each of the permanent crops in column b and enter the ground area per acre for each permanent crop (from instructions for page 8) in column 'd'.
 - obtain the number of permanent trees in the mix from the respondent and enter the number in column 'e'.
 - calculate the area occupied by each crop by multiplying column 'd' with column 'e' and sum these to obtain the total area of permanent crops in the mix.
 - subtract the total area of permanent crops in the mix from the total area of mix and enter the result in the total area under temporary crops.
 - proceed to step 1 to calculate the area under each temporary crop.

- Enter the name of each annual crop in the mix & estimate the percentage of each crop.
- Using the percentages for each crop calculate the area of each crop from the REMAINING AREA UNDER TEMPORARY CROPS.
- After completing this exercise for all fields, sum the area of each crop in the mix plus any monocrops and enter totals in section 5.2.1 col 3.
- Once the quantity harvested is obtained calculate the Yield (Metric tonnes/acre) & compare the figure with the norms given in the crop codes box. If it is excessively different check the area and the amount harvested.

Definition and working page	
<p>Method of Storage (Q 5.2.1, Col 29)</p> <ul style="list-style-type: none"> - Locally made structure: The structures that have been inherited from their fore fathers - Improved locally made structure: Traditional structures that have been improved using modern technology. - Normal duration of storage: Often there are stored stocks from different seasons and different years. The normal duration refers to the number of months that the most of the crop is stored for. 	<p>Procedures for Questions</p> <p>Details of Crop Storage:</p> <ol style="list-style-type: none"> 1. For the crops listed indicate if the household stored any during 2007/08 in column 28. 2. For the listed crops give details of storage.
<p>Marketing problems Section 5.2.1, Col 31</p> <ul style="list-style-type: none"> - Farmer Association: A village or community based group of farmers who have formed an organisation to purchase inputs/sell/store their products in order to achieve a better price for their products. - Cooperative Union: Large inter-village /community organisation set up on a district/regional or national basis for providing inputs, marketing and storing farmers products. - Government Regulatory board: Government control body for setting prices and controlling quality of certain agriculture commodities. 	<p>Details on Crop Marketing:</p> <ol style="list-style-type: none"> 1. For each of the crops listed indicate the main problems in marketing during 2007/08.
<p>Farm Inputs (Q 5.2.1)</p> <p>Pesticide: Chemical used to either protect the plant from or kill insects, birds, molluscs, mites, etc attacking the plant</p> <p>Fungicide: is a chemical that s used to protect the plant from or control a fungal disease.</p> <p>Herbicide: A chemical used to control weeds.</p>	
<p>Working Area/calculation space</p>	

5.3	PERMANENT/PERENNIAL CROPS AND FRUIT TREE PRODUCTION																			
	Does your household have any permanent/perennial crops or fruit trees? (Yes=1, No=2) <input style="float:right;" type="checkbox"/>																			
	If NO, go to section 6.0																			
5.3.1	For each of the permanent crops and fruit trees owned by the household during 2007/08 provide the following information																			
	Size of production unit																			
	MONOCROP		MIXED CROP		Inputs															
Permanent Crop Name	Perman-ent crop/ fruit tree crop Code	Area of Plants/ trees/Bushes in MONO CROP (acres)	Area covered by Permanent Crop in a MIXED CROP (acre)	Number of permanent Plants/trees in a MIXED CROP	Who Own the most part of the land	Seeds Use/Seedlings					Irriga-tion Use	Fertilizer Use (If the answer iis 6 in column 13, go to column 17)								
						Area Appli-ed	Type of Seeds Plant-ed	Quantity		Cost (Tshs)		Area Appli-ed	Type of Fertilizer Used	Quantity (kg)	Cost (Tshs)					
								Unit	Quantity used											
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)					
.....	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
.....	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
.....	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
.....	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
.....	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
.....	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
.....	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
.....	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
.....	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
.....	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
.....	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%; padding: 5px;"> <u>Who Own the most part of the land (Col 4)</u> Husband.....1 Wife.....2 Son.....3 Daughter.....4 Father of the Head HH.....5 Mother f the Head HH.....6 Other Relatives (Male).....7 Other Relatives (Female)..8 </td> <td style="width:25%; padding: 5px;"> <u>Inputs use codes (Col 7)</u> Used for the whole crop1 Used on 3/4 of whole crop2 Used on 1/2 of whole crop.....3 Used on 1/4 of whole crop4 Used on less than 1/4 of whole crop ..5 </td> <td style="width:25%; padding: 5px;"> <u>Type of Seeds Planted Col 8)</u> Local Seeds.....1 Improved Seeds 2 <u>Unit Measurement of Seeds col 9</u> Kilogram1 Seedlings2 </td> <td style="width:25%; padding: 5px;"> <u>INPUTuse codes (Col 12&13)</u> Used for the whole crop1 Used on 3/4 of whole crop2 Used on 1/2 of whole crop.....3 Used on 1/4 of whole crop4 Used on less than 1/4 of whole crop5 Not used6 </td> <td style="width:20%; padding: 5px;"> <u>Type of fertilizer Col 14)</u> Organic1 Inorganic 2 </td> </tr> </table>																<u>Who Own the most part of the land (Col 4)</u> Husband.....1 Wife.....2 Son.....3 Daughter.....4 Father of the Head HH.....5 Mother f the Head HH.....6 Other Relatives (Male).....7 Other Relatives (Female)..8	<u>Inputs use codes (Col 7)</u> Used for the whole crop1 Used on 3/4 of whole crop2 Used on 1/2 of whole crop.....3 Used on 1/4 of whole crop4 Used on less than 1/4 of whole crop ..5	<u>Type of Seeds Planted Col 8)</u> Local Seeds.....1 Improved Seeds 2 <u>Unit Measurement of Seeds col 9</u> Kilogram1 Seedlings2	<u>INPUTuse codes (Col 12&13)</u> Used for the whole crop1 Used on 3/4 of whole crop2 Used on 1/2 of whole crop.....3 Used on 1/4 of whole crop4 Used on less than 1/4 of whole crop5 Not used6	<u>Type of fertilizer Col 14)</u> Organic1 Inorganic 2
<u>Who Own the most part of the land (Col 4)</u> Husband.....1 Wife.....2 Son.....3 Daughter.....4 Father of the Head HH.....5 Mother f the Head HH.....6 Other Relatives (Male).....7 Other Relatives (Female)..8	<u>Inputs use codes (Col 7)</u> Used for the whole crop1 Used on 3/4 of whole crop2 Used on 1/2 of whole crop.....3 Used on 1/4 of whole crop4 Used on less than 1/4 of whole crop ..5	<u>Type of Seeds Planted Col 8)</u> Local Seeds.....1 Improved Seeds 2 <u>Unit Measurement of Seeds col 9</u> Kilogram1 Seedlings2	<u>INPUTuse codes (Col 12&13)</u> Used for the whole crop1 Used on 3/4 of whole crop2 Used on 1/2 of whole crop.....3 Used on 1/4 of whole crop4 Used on less than 1/4 of whole crop5 Not used6	<u>Type of fertilizer Col 14)</u> Organic1 Inorganic 2																

5.3 PERMANENT/PERENNIAL CROPS AND FRUIT TREE PRODUCTION (...CONTINUED)																				
5.3.1 For each of the permanent crops and fruit trees owned by the household during 2007/08 provide the following information																				
		Inputs											Harvesting & Storage					Marketing & Problems		
Permanent Crop Name	Perman-ent crop/fruit tree crop Code	Herbicides Use (If the answer is 6 in column 17, go to column 21)				Fungicides Use (If the answer is 6 in column 21, go to column 25)				Insecticides Use (If the answer is 6 in column 25, go to column 29)				Area harvested (ha)	Number of Mature Trees	Quantity harvested (kgs)	Quantity Stored (kgs)	Method of Storage	Quantity sold (kgs)	Marketing Problems
		Area Applied	Unit	Quantity used	Cost (Tshs)	Area Applied	Unit	Quantity used	Cost (Tshs)	Area Applied	Unit	Quantity used	Cost (Tshs)							
(1)	(2)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)
.....																				
.....																				
.....																				
.....																				
.....																				
.....																				
.....																				
.....																				
.....																				
.....																				
.....																				
.....																				

Unit (col 18,22&26) Kilogram1 Litre.....2	Input use codes (Col 17,21 &25) Used for the whole crop1 Used on 3/4 of whole crop2 Used on 1/2 of whole crop3 Used on 1/4 of whole crop4 Used on less than 1/4 of whole crop5 Not used6	Main method of Storage (Col 33) In locally made traditional structure..1 In Improved locally made structure .2 In modern store3 In Sacks/open drum.....4 In airtight drum5 Unprotected pile6 Other (Specify).....8	Market problems (Col 35) Low market price01 No transport02 Transport cost too high03 No buyer04 Market too far05 Farmer association problems ...06 Cooperative Problems07 Trade Union problems08 Government Regulatory board problems.....09 Lack of market Information10 Other (specify)98 Not Applicable99
--	---	--	---

Definitions and working page

Permanent Crop:

Permanent crops: are sown or planted once and then , they occupy the land for some years and need not to be replanted after each annual harvest. Permanent crops are mainly trees (e.g., apples) but also bushes and shrubs (e.g., berries), palms (e.g., dates), vines (e.g., grapes), herbaceous stems (e.g., bananas) and stemless plants (e.g., pineapples).

Total number of plants:

This includes both mature harvestable plants and immature non harvestable plants.

Number of mature plants: This is the number of plants which bared harvest.

Instructions for Permanent crop mono stands and mixtures

- A.** For fields that are **monocrop permanent**, **ONLY** enter the **area of plants in column 3**.
 - B.** For fields that are **mixed permanent** calculate the area of each crop based on the % **occupied by each crop method** (NOT using the number of trees method) and **ONLY** enter the area in **column 4**
 - C.** For fields that are **mixed permanent/annual** either:
 - **ONLY** enter the **area in column 4** if the area of the permanent crop was based on the % **occupied by each crop method**
- OR**
- **ONLY** enter the **number of trees in column 5** if the number of permanent crop plants was provided

Permanent crops (oils):

Code	Crop	Ground area/plant
44	Palm Oil	0.00049
45	Coconut	0.00037
46	Cashewnut	0.00062

Permanent (Cash crops)

Code	Crop	Ground area/plant
53	Sisal	0.00012
54	Coffee	0.00049
55	Tea	0.00037
56	Cocoa	0.00049
57	Rubber	0.00099
58	Wattle	0.00099
59	Kapok	0.00124
60	Sugar Cane	0.00012
61	Cardamom	0.00049
63	Tamarin	0.00099
64	Cinamon	0.00124
65	Nutmeg	0.00099
66	Clove	0.00074
18	Black Pepper	0.00037
34	Pigeon pea	0.00025
21	Cassava	0.00019
75	Pineapple	0.00006

Permanent Crops:

Code	Crop	Ground area/plant
70	Passion Fruit	0.00074
71	Banana	0.00037
72	Avocado	0.00099
73	Mango	0.00099
74	Papaw	0.00037
76	Orange	0.00074
77	Grapefruit	0.00074
78	Grapes	0.00012
79	Mandarin	0.00074
80	Guava	0.00074
81	Plums	0.00074
82	Apples	0.00074
83	Pears	0.00074
84	Peaches	0.00074
85	Lime/lemon	0.00074
68	Pomelo	0.00099
69	Jack fruit	0.00074
97	Durian	0.00074
98	Bilimbi	0.00074
99	Rambutan	0.00074
67	Bread fruit	0.00099
38	Malay apple	0.00074
39	Star fruit	0.00074
09	Sour Soup	0.00074

Working Area/calculation space

Definition and working page	
<p>Question Specific definitions (Section 5)</p> <p>Method of Storage (Section 5.3.1, Col 33)</p> <ul style="list-style-type: none"> - Locally made structure: The structures that have been inherited from their fore fathers - Improved locally made structure: Traditional structures that have been improved using modern technology. - Normal duration of storage: Often there are stored stocks from different seasons and different years. The normal duration refers to the number of months that the most of the crop is stored for. <p>Marketing problems Section 5.3.1, Col 35</p> <ul style="list-style-type: none"> - Farmer Association: A village or community based group of farmers who have formed an organisation to purchase inputs/sell/store their products in order to achieve a better price for their products. - Cooperative Union: Large inter-village /community organisation set up on a district/regional or national basis for providing inputs, marketing and storing farmers products. - Government Regulatory board: Government control body for setting prices and controlling quality of certain agriculture commodities. <p>Farm Inputs (Q 5.3.1)</p> <p>Pesticide: Chemical used to either protect the plant from or kill insects, birds, molluscs, mites, etc attacking the plant</p> <p>Fungicide: is a chemical that s used to protect the plant from or control a fungal disease.</p> <p>Herbicide: A chemical used to control weeds.</p>	<p>Procedures for Questions</p> <p>Details of Crop Storage:</p> <ol style="list-style-type: none"> 1. For the crops listed indicate if the household stored any during 2007/08 in column 32. 2. For the listed crops give details of storage. <p>Details on Crop Marketing:</p> <ol style="list-style-type: none"> 1. For each of the crops listed indicate the main problems in marketing during 2007/08.
<p>Working Area/calculation space</p>	

6.0 ON-FARM INVESTMENT

6.1 FARM IMPLEMENTS

Farm implements and assets used and owned by the household during 2007/08 agriculture year

S/N	Equipment/Asset Name	USED		Number Owned
		Yes=1 No=2		
	(1)	(2)	(3)	
6.1.1	Panga	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.1.2	Hand Hoe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.1.3	Hand Sprayer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.1.4	Oxen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.1.5	Ox Plough	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.1.6	Ox Seed Planter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.1.7	Ox Cart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.1.8	Tractor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.1.9	Tractor Plough	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.1.10	Tractor Harrow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.1.11	Shellers/threshers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.1.12	Power Tiller	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.1.13	Ox Ridger	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>

6.4 ACCESS TO FARM INPUTS

Give details of farm inputs used during the 2007/08 agriculture year

S/N	Input name	Used, Yes=1 No=2	Source of input	Distance to Source
	(1)	(2)	(3)	(4)
6.4.1	Chemical Fertiliser	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
6.4.2	Farm Yard Manure	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
6.4.3	Compost	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
6.4.4	Insecticide/fungicid	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
6.4.5	Herbicide	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
6.4.6	Improved Seeds	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

6.5 IRRIGATION PRACTICE

6.5.1	Does the household practice irrigation? (Yes=1, No=2) <input type="checkbox"/>			
	If the response is 'NO' go to section 6.6			
S/N	Main Source of Irrigation Water	Main method of Obtaining Water	Irrigatable Area (Acrea)	Area of irrigated Land agriculture year 2007/08(acres)
	(1)	(2)	(3)	(4)
6.5.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

6.2 USE OF TRACTORS AND DRAFT ANIMALS

Did you use Tractors/Draft animals to cultivate your land during 07/08? (Yes=1, No=2)
(If no, go to question 6.3)

S/N	Type	Number owned	Number used	Area Cultivated (Acres)
	(1)	(2)	(3)	(4)
6.2.1	Oxen	<input type="text"/>	<input type="text"/>	<input type="text"/>
6.2.2	Bulls	<input type="text"/>	<input type="text"/>	<input type="text"/>
6.2.3	Cows	<input type="text"/>	<input type="text"/>	<input type="text"/>
6.2.4	Donkeys	<input type="text"/>	<input type="text"/>	<input type="text"/>
6.2.5	Tractor	<input type="text"/>	<input type="text"/>	<input type="text"/>
6.2.6	Power Tiller	<input type="text"/>	<input type="text"/>	<input type="text"/>

6.3 USE OF ORGANIC FERTILIZER

6.3.1 Did you apply organic fertiliser during 07/08?
(Yes=1, No=2) (If no, go to question 6.4)

	Type of organic Fertiliser	Quantity used (kg)	Area applied (acres)
	(1)	(2)	(3)
6.3.2	Farm Yard Manure (FYM)	<input type="text"/>	<input type="text"/>
6.3.3	Compost Manure	<input type="text"/>	<input type="text"/>

Source of input (Col 3)

- Government01
- Local farmers group02
- Local market/Trade Store ...03
- Secondary Market04
- Development project05
- Crop buyers06
- Large scale farm07
- Locally produced by hh08
- Neighbour09
- Cooperative10
- Other (specify)98
- Not applicable99

Distance to source (Col 4)

- Less than 1 Km1
- Between 1 and 3km2
- between 3 and 10 km... 3
- Between 10 and 20 km ...4
- 20km and above5
- not applicable9

Source of irrigation water (Col 1)

- River1 Borehole5
- Lake2 Canal6
- Dam3 Tap Water7
- Well4

Method of obtaining water (Col 2)

- Gravity1
- Hand bucket2
- Hand pump3
- motor pump4

Definition and working	
Overview of Investment activities (Section 6.0)	
<div style="border: 1px solid black; padding: 5px;"> <p>Investment activities: Investment activities refer to medium to long term farm development structures and projects. This can be Irrigation structures, erosion and water harvesting structures or other permanent or semi-permanent investment made on the land that the household owns.</p> </div>	
Question Specific Definitions (Q 6.5)	Q 6.5 Irrigation
<div style="border: 1px solid black; padding: 5px;"> <p>Source of irrigation Water (Col 1): The main source of water from which water is obtained for irrigation.</p> <p>Method of obtaining water (Col 2): The mechanism by which the water is extracted from the source,</p> <p>Irrigatable Area (Col 3): The area the irrigation system is designed to cover in acres.</p> <p>Area of irrigated land this year (Col 4): Area of land under irrigation during the 2007/08 agric year. This is the physical area and NOT the cumulative area of 2 or more croppings.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <ol style="list-style-type: none"> 1. If the hh practices irrigation give details on the main source, main method of obtaining and applying water. 2. Cross check column 9, Q 5.1.1, 5.2.1 & 5.3.1 to check if irrigation was used on any crops. </div>
Question Specific Definitions (Q 6.1)	Q 6.1 Farm Implements
<div style="border: 1px solid black; padding: 5px;"> <p>Farm Implements Check if the implements listed were used by the household and whether such implements were owned by the household</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <ol style="list-style-type: none"> 1. Indicate in column 2 whether each of the implements are used or not. 2. Complete cols 3, indicating the number of implements owned by the hhd </div>
<div style="border: 1px solid black; padding: 5px;"> <p>Use of Organic Fertilizer (Q6.3) Technically, an animal or plant product or by-product used as fertilizer, such as manure, blood meal, alfalfa meal, seaweed, or compost. In practice, usually includes mineral-based fertilizers as well, such as greensand or rock phosphate.</p> <p>Farm yard Manure: An organic fertiliser made on farm composed of animal dung.</p> <p>Compost: An organic fertiliser made on farm from decomposed plant material</p> </div>	Q 6.4 Farm Inputs
<div style="border: 1px solid black; padding: 5px;"> <p>Draft Animals (Question 6.2) draft animal - an animal trained for and used for pulling heavy loads (ie plough, cart, etc). This animals include Oxen, Bulls, Cows, Donkeys.</p> <p>Number owned: is the number of drat animals the household owned during the agricultural year 2007/08</p> <p>Number used: is the number of draft animals the household used for agricultural related labour during the agricultural year 2007/08. This includes all animals used regardless of the ownership.</p> <p>Area Cultivated (acres): This is the area cultivated by the draft animals during the agricultural year 2007/08</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <ol style="list-style-type: none"> 1. Indicate in column 2 whether each of the inputs are used or not. 2. Complete cols 3 & 4 indicating the source and distance to source of inputs respectively </div>

6.6 SOIL EROSION									
6.6.1 Does the household have any erosion problem on their farming land ? <i>(Yes=1, No=2)</i>						<input type="checkbox"/>			
6.6.2 Does the household have any erosion control/water harvesting facilities on their land ? <i>(Yes=1, No=2) If the response is 'NO' go to section 7.0</i>						<input type="checkbox"/>			
S/N	Type of erosion control/ water harvesting structure <i>(1)</i>	Number of structures <i>(2)</i>	Year of con- struction <i>(3)</i>		Type of erosion control/ water harvesting structure <i>(1)</i>	Number of Structures <i>(2)</i>	Year of Construction <i>(3)</i>		
6.6.3	Terraces	<input type="text"/>	<input type="text"/>	→	6.6.7	Tree belts	<input type="text"/>		
6.6.4	Erosion control bunds	<input type="text"/>	<input type="text"/>		6.6.8	Water harvesting bunds	<input type="text"/>		
6.6.5	Gabions/Sandbags	<input type="text"/>	<input type="text"/>		6.6.9	Drainage ditches	<input type="text"/>		
6.6.6	Vetiver Grass	<input type="text"/>	<input type="text"/>		6.6.10	Others	<input type="text"/>		
7.0 ACCESS TO CREDIT FOR AGRICULTURE AND LIVESTOCK									
7.1 During the year 2007/08 did any of the hh members borrow money for agriculture? <i>(if the response is 'NO' go to section 7.2)</i>						(Yes = 1, No = 2)	<input type="checkbox"/>		
CHOOSE UP TO THREE MAIN OPTIONS, THEN GO TO SECTION 8.0					Source of Credit		7.1.1a <input type="checkbox"/>	7.1.2a <input type="checkbox"/>	7.1.3a <input type="checkbox"/>
Source of credit (7.1.1, 7.1.2, 7.1.3): Family, friend or relative.....1 Savings & credit Soc4 NGO/Project7 Bank.....2 Trader/trade store5 Other (Specify).....8 Cooperative3 Private individual6					Credit given to		7.1.1b <input type="checkbox"/>	7.1.2b <input type="checkbox"/>	7.1.3b <input type="checkbox"/>
					(Male = 1, Female = 2)				
7.2 If the answer to question 7.1 above is 'NO' what is the main reason for not applying for Credit?									
Reason for not applying for credit (7.2) Not needed1 Not available2 Did not want to go into debt.....3 Interest rate/cost too high.....4 Did not know how to get credit.....5 Difficult bureaucratic procedure6 Credit granted too late7 Other (specify)8 Dont know about credit9									
8.0 CROP EXTENSION SERVICES									
8.1 Did the households or any member of the household participate in Out Grower agreements during 2007/08? <i>(Yes=1, No=2)</i>						<input type="checkbox"/>			
8.2 Did the households or any member of the household Participate in contracting production agreements during 2007/08? <i>(Yes=1, No=2)</i>						<input type="checkbox"/>			
8.3 Did your household receive extension advice for crop production during 2007/08 <i>(Yes=1, No=2)</i> <i>If the response is 'NO' go to section 9.0</i>						<input type="checkbox"/>			
Crop Extension Messages and Source of Extension									
S/N	Extension Message <i>(1)</i>	Received Advice Yes=1 No=2 <i>(2)</i>	Source of Crop Extension <i>(3)</i>		S/N	Extension Message <i>(1)</i>	Received Advice Yes=1 No=2 <i>(2)</i>	Source of Crop Extension <i>(3)</i>	
8.3.1	Spacing	<input type="checkbox"/>	<input type="checkbox"/>		8.3.6	Use of improved seed	<input type="checkbox"/>	<input type="checkbox"/>	
8.3.2	Use of agrochemicals	<input type="checkbox"/>	<input type="checkbox"/>		8.3.7	Mechanisation/LST	<input type="checkbox"/>	<input type="checkbox"/>	
8.3.3	Erosion control	<input type="checkbox"/>	<input type="checkbox"/>		8.3.8	Irrigation Technology	<input type="checkbox"/>	<input type="checkbox"/>	
8.3.4	Organic fertiliser use	<input type="checkbox"/>	<input type="checkbox"/>		8.3.9	Crop Storage	<input type="checkbox"/>	<input type="checkbox"/>	
8.3.5	Inorganic fertiliser use	<input type="checkbox"/>	<input type="checkbox"/>		8.3.10	Vermin control	<input type="checkbox"/>	<input type="checkbox"/>	
Source of extension (Col 3) Government1 NGO/Dev project ..2 Cooperative ...3 Large scale farmer4 Other (Specify) ...8 Not applicable9									

Definition and working page	
<p>Question Specific Definitions (Q 6.6)</p> <p>Erosion control/water harvesting structure (Col 1)</p> <p>Terraces: Are structures constructed on the side of a hill to provide a level ground to plant crops. They are often used to trap water for paddy/lowland rice production.</p> <p>Erosion Control Bunds: These are banks of earth/stones built perpendicular to the slope to slow down water and prevent erosion. They are different to Terraces in that the soil behind the banks are not level.</p> <p>Gabions: A gabion is a wire mesh box filled with rocks/stones and used to control or prevent gully erosion</p> <p>Sandbags Used to prevent or control gully erosion</p> <p>Tree belts/Wind breaks: A band of trees planted perpendicular to the prevailing wind whose main purpose is to slow down wind speed</p> <p>Water Harvesting bunds: A bank of earth constructed horizontal to the slope of the land to trap water. They are usually banana shaped.</p> <p>Vetiva Grass: The Vetiver System is the soil erosion control method whereby Narrow hedgerows of Vetiver grass will spread out rainfall runoff across the slope, act as a filter to trap erosion sediment, create natural terraces and reduces the velocity of rainfall runoff. It has application for on farm soil and water conservation, rehabilitation of eroded lands, and prevention of erosion on sloping lands</p> <p>Drainage ditches: are long trenches that collect and carry away water. They remove unwanted water in situations where the water table is close to the surface, where the land is flat, and where croplands are drained by underground tiles.</p>	<p>Procedures for questions</p> <p>Section 8.0 Crop Extension Services Extension Advice is the service and education provided by rural agricultural officers to farmers on care of crops and livestock</p> <p>Out Grower agreements: is the agreement made between large scale famers and small scale farmers on crop markets and provision of inputs</p> <p>Contracting production agreements: These are the contracts made by crop buyers and producers on crop markets and provision of inputs</p>
<p>Section 7.0 Credit for Agriculture Purposes</p> <p>Credit: is defined as finance in the form of cash or in-kind contributions (eg direct provision of inputs, machinery, livestock or other material) for the purpose of crop and livestock production whereby the value of the credit must be paid back to the borrower.</p>	<p>Section 7.0 Source of agriculture credit</p> <p>If the farmer obtained credit from more than one source then record up three main sources of credit. Use the three boxes provided</p>
<p>Working Area/calculation space</p>	

9.0 LIVESTOCK AND FISHERIES															
		ID BOX		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>											
9.1 CATTLE		Did the household own, raise or manage any CATTLE during 2007/08? Yes=1, No=2 (If no go to section 9.3) <input type="checkbox"/>													
Cattle Population as of 1st October 2008															
S/N	Cattle type (1)	Number of Indigenous (2)	Number of Improved		Total (5)										
			Beef (3)	Dairy (4)											
9.1.1	Castrated Bulls (Oxen)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>										
9.1.2	Uncastrated Bulls	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>										
9.1.3	Cows	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>										
9.1.4	Steers	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>										
9.1.5	Heifers	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>										
9.1.6	Male Calves	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>										
9.1.7	Female Calves	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>										
Grand Total					<input type="text"/>										
9.1.8. Which Method do you use to identify your Cattle?															
<table border="1"> <thead> <tr> <th colspan="2">Method of Cattle Identification</th> </tr> </thead> <tbody> <tr> <td>Branding.....1</td> <td>Cattle clan....2</td> </tr> <tr> <td>Ear notching.....3</td> <td></td> </tr> <tr> <td>Livestock Colour.....4</td> <td>Ear rings...5</td> </tr> <tr> <td>other</td> <td>8</td> </tr> </tbody> </table>						Method of Cattle Identification		Branding.....1	Cattle clan....2	Ear notching.....3		Livestock Colour.....4	Ear rings...5	other	8
Method of Cattle Identification															
Branding.....1	Cattle clan....2														
Ear notching.....3															
Livestock Colour.....4	Ear rings...5														
other	8														
9.2 MILK PRODUCTION															
S/N	Season (1)	Cattle type 2	Number of milked cows 3	Average milk production per cow per day 4	Average number of days for cows on milked 5	Average price per litre per season									
						6									
9.2.1	Wet Season	Improved Dairy	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>									
9.2.2		Indigenous	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>									
9.2.3	Dry Season	Improved Dairy	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>									
9.2.4		Indigenous	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>									
9.3 GOAT															
Did the household own, raise or manage any GOATS during 2007/08? (If no go to section 9.4) yes=1, No=2 <input type="checkbox"/>															
Goat Population as of 1st October 2008															
S/N	Goat type (1)	Number of Indigenous (2)	Number of Improved		Total (5)										
			for meat (3)	Dairy (4)											
9.3.1	Billy Goat	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>										
9.3.2	Castrated Goat	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>										
9.3.3	She Goat	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>										
9.3.4	Male Kid	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>										
9.3.5	She Kid	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>										
Grand Total					<input type="text"/>										
S/N	Season (1)	Number of milked goat 2	Average milk production per goat per day 3	Average number of days for goats on milked 4	Average price per litre per season										
					5										
9.3.6	Wet Season	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>										
9.3.7	Dry Season	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>										

Definitions and working page

Q 9.1: is for the current population of cattle (as of 1st October 2008);

Cattle type (Section 9.1.1 to 9.1.7)

Bull: Mature **Uncastrated** male cattle used for breeding

Cow: Mature female cattle that has given birth at least once

Steer: Castrated male cattle over 1 year

Heifer: Female cattle of 1 year up to the first calving

Calves: Young cattle under 1 year of age

Q 9.3: is for the current population of Goat (as of 1st October 2008);

Goat type (Section 9.3.1 to 9.3.5)

Billy Goat (he-goat): Mature **Uncastrated** male goat used for breeding

Castrated goat: Male goat that has been castrated.

She Goat: Mature female goat over 9 months of age

Kid: Young goat under 9 months of age.

Working area

ID BOX

9.4	SHEEP.				<input type="checkbox"/>
	Did the household own, raise or manage any SHEEP during 2007/08? (If no go to section 9.5) Yes=1, No=2				
	Sheep Population as of 1st October 2008				
S/N	Sheep type <i>(1)</i>	Number of Indigenous <i>(2)</i>	Number of Improved		Total <i>(5)</i>
			for Mutton <i>(3)</i>	Dairy <i>(4)</i>	
9.4.1	Ram	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.4.2	Castrated Sheep	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.4.3	She Sheep	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.4.4	Male lamb	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.4.5	She lamb	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Grand Total					<input type="text"/>

9.5	PIG		<input type="checkbox"/>
	Did the household own, raise or manage any PIGS during 2007/08? (If no go to section 9.6) Yes=1, No=2		
	PIG Population as of 1st October 2008		
S/N	Pig type <i>(1)</i>	Number <i>(2)</i>	
		<input type="text"/>	<input type="text"/>
9.5.1	Boar	<input type="text"/>	<input type="text"/>
9.5.2	Castrated male	<input type="text"/>	<input type="text"/>
9.5.3	Sow/Gilt	<input type="text"/>	<input type="text"/>
9.5.4	Male piglet	<input type="text"/>	<input type="text"/>
9.5.5	She piglet	<input type="text"/>	<input type="text"/>
Grand Total		<input type="text"/>	<input type="text"/>

9.6	OTHER LIVESTOCK					
	Number as of 1st OCTOBER 2008					
	Animal type <i>(1)</i>	Current Number <i>(2)</i>	Number of eggs 2007/08 <i>(3)</i>		Animal type	Current Number <i>(2)</i>
		<input type="text"/>	<input type="text"/>			<input type="text"/>
9.6.1	Indigenous Chicken	<input type="text"/>	<input type="text"/>	9.6.6	Turkeys	<input type="text"/>
9.6.2	Layer	<input type="text"/>	<input type="text"/>	9.6.7	Rabbits	<input type="text"/>
9.6.3	Broiler	<input type="text"/>		9.6.8	Donkeys	<input type="text"/>
9.6.4	Ducks	<input type="text"/>	<input type="text"/>	9.6.9	Horses	<input type="text"/>
9.6.5	Guinea pigs	<input type="text"/>		9.6.10	Dogs	<input type="text"/>

Definitions and working page

Q9.4: is for the current population of Sheep (as of 1st October 2008);

Sheep type (Section 9.4. 1 to 9.4.5)

Ram: Mature **Uncastrated** male goat used for breeding

Castrated sheep: Male sheep that has been castrated.

Ewe: Mature female sheep over 9 months of age

Lamb: Young sheep under 9 months of age.

Q 9.5: is for the current population of Pigs (as of 1st October 2008);

Pigs type (Section 9.5.1 to 9.5.5)

Boar: Mature **Uncastrated** male pig used for breeding

Castrated Pig: Male pig that has been castrated.

Sow: Mature female pig that has given birth to at least one litter of pigs.

Gilt: Female pig of 9 months up to the first farrowing.

9.7 LIVESTOCK PEST & PARASITE CONTROL															
Did you deworm your animals during 2007/08? (Yes=1, No=2)		<input type="checkbox"/>													
<i>(If the response is 'NO' go to section 9.7.5)</i>															
Which animals did you deworm? (Dewormed =1, NOT dewormed = 2)															
9.7.1 Cattle <input type="checkbox"/>	9.7.2 Goats/Sheep <input type="checkbox"/>	9.7.3 Pigs <input type="checkbox"/>	9.7.4 Chicken <input type="checkbox"/>												
9.7.5 Do you normally encounter a tick problem? (Yes=1, No=2) <i>(If the response is 'NO' go to section 9.7.7)</i>		<input type="checkbox"/>													
9.7.6 Which methods of tick control did you use?		<input type="checkbox"/>													
<table border="1"> <tr> <td colspan="4">Control method (Q 9.7.6)</td> </tr> <tr> <td>Dipping.....1</td> <td>Smearing.....3</td> <td colspan="2">Other.....8</td> </tr> <tr> <td>Spraying2</td> <td>None4</td> <td colspan="2"></td> </tr> </table>				Control method (Q 9.7.6)				Dipping.....1	Smearing.....3	Other.....8		Spraying2	None4		
Control method (Q 9.7.6)															
Dipping.....1	Smearing.....3	Other.....8													
Spraying2	None4														
9.7.7 Do you normally encounter a tsetse fly problem? (Y=1, N=2) <i>(If the response is 'NO' go to section 9.7.9)</i>		<input type="checkbox"/>													
9.7.8 Which methods of control did you use?		<input type="checkbox"/>													
<table border="1"> <tr> <td colspan="4">Control method (Q 9.7.8)</td> </tr> <tr> <td>Dipping.....1</td> <td>Spraying2</td> <td>Trappig.....3</td> <td>None</td> </tr> <tr> <td>.....4</td> <td>Other....8</td> <td colspan="2"></td> </tr> </table>				Control method (Q 9.7.8)				Dipping.....1	Spraying2	Trappig.....3	None4	Other....8		
Control method (Q 9.7.8)															
Dipping.....1	Spraying2	Trappig.....3	None												
.....4	Other....8														
9.7.9 Do you normally encounter a Newcastle Disease problem on your chicken? (Y=1, N=2) if the answer is No go to item 9.7.11		<input type="checkbox"/>													
9.7.10 Which methods of control did you use?		<input type="checkbox"/>													
<table border="1"> <tr> <td colspan="4">methods of control (Question 9.7.10)</td> </tr> <tr> <td>Vaccination Method.....1</td> <td>Local Herbs.....2</td> <td colspan="2">None....3</td> </tr> </table>				methods of control (Question 9.7.10)				Vaccination Method.....1	Local Herbs.....2	None....3					
methods of control (Question 9.7.10)															
Vaccination Method.....1	Local Herbs.....2	None....3													
9.7.11 Do you normally encounter Fowl Typhoid problem on your chicken? (Y=1, N=2) if the answer is no Go to section 9.8		<input type="checkbox"/>													
9.7.12 Which methods of control did you use?		<input type="checkbox"/>													
<table border="1"> <tr> <td colspan="4">methods of control (Question 9.7.12)</td> </tr> <tr> <td>Vaccination Method.....1</td> <td>Local Herbs.....2</td> <td colspan="2">None....3</td> </tr> </table>				methods of control (Question 9.7.12)				Vaccination Method.....1	Local Herbs.....2	None....3					
methods of control (Question 9.7.12)															
Vaccination Method.....1	Local Herbs.....2	None....3													
Did your livestock get vaccination against the following diseases? (Yes = 1, No = 2).															
9.7.13A	Foot and mouth disease <input type="checkbox"/>	9.7.13B	Lumpyskin <input type="checkbox"/>												
9.8 LIVESTOCK EXTENSION															
Did your household receive the listed extension advice for Livestock production during 2007/08 <input type="checkbox"/>															
Na.	Livestock Extension Message	Received Advice Yes=1, No=2	Source of Livestock Extension												
	(1)	(2)	(3)												
9.8.1	Feeds and Proper feeding	<input type="checkbox"/>	<input type="checkbox"/>												
9.8.2	Housing (Goat, Dairy, Poultry, Pigs)	<input type="checkbox"/>	<input type="checkbox"/>												
9.8.3	Proper Milking and Milk Hygiene	<input type="checkbox"/>	<input type="checkbox"/>												
9.8.4	Livestock fattening	<input type="checkbox"/>	<input type="checkbox"/>												
9.8.5	Disease control (dipping/spraying)	<input type="checkbox"/>	<input type="checkbox"/>												
9.8.6	Herd/Flock size and selection	<input type="checkbox"/>	<input type="checkbox"/>												
9.8.7	Pasture Establishment	<input type="checkbox"/>	<input type="checkbox"/>												
9.8.8	Group formation and strengthening	<input type="checkbox"/>	<input type="checkbox"/>												
9.8.9	Calf rearing	<input type="checkbox"/>	<input type="checkbox"/>												
9.8.10	Use of improved Bulls/AI	<input type="checkbox"/>	<input type="checkbox"/>												
9.8.11	Utengenezaji wa Vyakula vya Mifugo	<input type="checkbox"/>	<input type="checkbox"/>												
9.8.12	Other Advice (Specify)	<input type="checkbox"/>	<input type="checkbox"/>												
Source of extension (Col 3) Government1 Cooperative3 Radio/TV/Newspaper....5 NGO/Dev project ..2 Large scale farmer4 Neighbor.....6 Other (Specify) ...8															

ID BOX	
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

NOTE: If the Response on Questions 9.1 through 9.6 is NO (INDICATING THAT THE HOUSEHOLD DOES NOT KEEP ANY LIVESTOCK, Skip to Question 9.9)

Definitions and working page**LIVESTOCK PEST & PARASITE CONTROL**

De-worming: To cure an animal of worms, normally the livestock which are considered for this treatment are Cattle, Goats, Sheep and Pigs

Tick Problems: Tick is parasitic insect leading carrier and transmitter of a variety of disease from livestock to livestock and to humans (eg. ECF).

Tsetse Flies: This a two-winged bloodsucking African flies of the genus Glossina, often carrying and transmitting pathogenic trypanosomes to humans and livestock.

Livestock Extension Service providers (Section '9.8)

Livestock Extension: Extension Advice is the service and education provided by rural Livestock officers to Livestock keepers on care of Livestock

9.9 FISH FARMING ID BOX

Was fish farming carried out by this household during 2007/08? (Yes = 1, No = 2) (If the response is 'NO' go to section 9.10)

Specify details of fish farming practices

S/N	Productin unit Number	Fish farming system	Size of unit/pond (m ²)	Source of fingerling	Frequency of stocking(No./Year)	Kiwango cha Huduma ya Bwawa	Number of Stocked Fish				Number of fish harvested	Weight of fish		Mainly sold to
							Tilapia	Milkfish	Crab	Lulu		Weight of fish harvested	Weight of fish sold	
	(1)	(2)	(3)	(4)	(5)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
9.9.1	1	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
9.9.2	2	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
9.9.3	3	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

Farming system (Col 2)

Natural pond.....1 Other.....8
 Dug out pond.....2
 Water resevoir.....3

Kiwango cha Huduma ya bwawa S/wima 6)

Kiwango cha Juu.....1 Kiwango cha Chini.....3
 Kiwango cha kati.....2 Hajui.....8

Source of fingerling (Col 4)

Own pond.....1 Neighbour.....4
 Government institution.....2 Private trade...5
 NGO/Project.....3 Natural pond...6
 Other.....8

Mainly sold to (Col 12)

Neighbour.....1 Secondary market.....3 Large scale farm.....5 Did not sell.....7
 Local market...2 Processing industry.....4 Trade at farm.....6 Other.....8

9.10 HONEY PRODUCTION

Did the household harvest honey during 2007/08 agricultural year? Yes = 1, No = 2 (If the answer is NO go to question 9.11)

Give details on honey harvest during agricultural year 2007/08

S/N	Honey type	Did the harvest done? (Yes =1, No =2)	Number of improved bee hive	Number of local hive	Quantity of honey harvested per year (litre)	Quantity of honey sold (litre)	Price per litre	Where sold (MAIN MARKET)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
9.10.1	Stingless bee	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
9.10.2	Bee	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

Where sold Col 8

Neighbours.....1 Large scale farm.....5
 Local market.....2 Trade at farm.....6
 Secondary market.....3 Did not sell.....7
 Factory/Industry.....4 Other.....8

9.11 AGRICULTURAL CONSTRAINTS.

From the list of agricultural constraints on the right, select five main constraints for the development of agricultural activities during 2007/08.

S/N	the 5 most important problems	Code
	(1)	(2)
9.11.1	Most important	<input type="checkbox"/>
9.11.2	2nd most important	<input type="checkbox"/>
9.11.3	3rd most important	<input type="checkbox"/>

List Of Constraints

S/N	the 5 most important problems	Code
	(1)	(2)
9.11.4	4th most important	<input type="checkbox"/>
9.11.5	5th most important	<input type="checkbox"/>

01 Access to land	13 Access to credit
02 Ownership of Land	14 Access to off Farm income
03 Poor farm inputs	15 Haversting
04 Soil Fertility	16 Threshing
05 Access to Improved seed	17 Crop Storage
06 Irrigation facilities	18 Processing
07 Access to chemical inputs	19 Market Information
08 Cost of inputs	20 Transport costs
09 Extension services	21 Distruction by animals
10 Access to forest resources	22 Stealing
11 Hunting and Gathering	23 Pests and Diseases
12 Access to water	24 Local government taxation

<p>Definitions and working page for page 15</p>	
<p>General definitions for Section</p> <p>Fish farming: Refers to the rearing/production of fish. It is different to fishing in that the fish have to be reared and fed in fish farming. Fishing traps or captures naturally occurring fish in rivers, lakes and the sea and should not be included in this section.</p>	<p>Working area for page 15</p>
<p>Question Specific Definitions (Section 9.9)</p> <p>Production unit number (Col 1): A production unit is a pond river/lake which is treated as a separate entity for the production of fish eg it may be by virtue of manageable size, maturity of fish, type of fish etc. Eg a farmer may have 3 fish ponds. (each one is a separate production unit).</p> <p>Frequency of stocking (Col 5): What is the number of times the farmer puts new fingerlings into the pond each year.</p> <p>Fingerlings: These are young immature fish used for stocking ponds.</p>	
<p>Sold: (Col 10 & 11)</p> <p>If no fish were sold enter "0" in column 12)</p>	

10.0 POVERTY INDICATORS AT HOUSEHOLD LEVEL		ID BOX		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
10.1 HOUSE CONSTRUCTION						10.2 HOUSE ASSETS							
For the main dwelling , what are the main building materials used in the construction of the following 10.1.1: Roof <input type="checkbox"/> 10.1.2 Floor <input type="checkbox"/> 10.1.3 Walls <input type="checkbox"/>						Does your household own the following? Asset <input type="checkbox"/> Y=1, N=2							
Roof Material Iron Sheets.....1 Tiles2 Concrete3 Asbestos4 Grass/leaves.....5 Grass & mud.....6 Other (Specify) 8		Floor Material Earth, Sand, Dung1 Wood Planks, Bamboo, Palm.2 Parquet Or Polished Wood ...3 Vinyl Or Asphalt Strips.....4 Ceramic Tiles, Terrazzo5 Cement6 Carpet7 Other (specify)8		Wall Material Grass1 Poles And Mud2 Sun-Dried Bricks3 Baked Bricks4 Wood, Timber5 Cement Blocks6 Stones7 Other (specify)8		10.2.1	Radio/cassette, music system)				<input type="checkbox"/>		
						10.2.2	Telephone (landline)				<input type="checkbox"/>		
						10.2.3	Telephone (mobile)				<input type="checkbox"/>		
						10.2.4	Pressing Iron				<input type="checkbox"/>		
						10.2.5	Wheelbarrow				<input type="checkbox"/>		
						10.2.6	Bicycle				<input type="checkbox"/>		
						10.2.7	Vehicle				<input type="checkbox"/>		
						10.2.8	Television				<input type="checkbox"/>		
						10.2.9	Refrigerator				<input type="checkbox"/>		
						10.2.10	Motor Cycle				<input type="checkbox"/>		
10.1.4		Number of rooms		<input type="text"/>	<input type="text"/>								
10.3 ENERGY USE BY HOUSEHOLD						10.4 ACCESS TO DRINKING WATER							
Energy use and access by the household						Season		Main source of drinking water		Distance to source (in km)		Time to and from source (Hour : minute)	
Main Source of energy for						(1)		(2)		(3)		(4)	
10.3.1		Lighting <input type="checkbox"/>		10.3.2		Cooking <input type="checkbox"/>		10.4.1		Wet Season		<input type="text"/> : <input type="text"/>	
						10.4.2		Dry Season		<input type="text"/> : <input type="text"/>			
Lighting energy Mains electricity.....01 Solar02 Gas (biogas)03 Hurricane Lamp04 Pressure Lamp05 Wick Lamp06 Candles07 Firewood08 Other (specify) 98		Cooking energy Mains electricity.....01 Solar02 Gas (hh biogas)03 Bottled gas04 Paraffin/kerocine.....05 Charcoal.....06 Firewood07 Crop Residues08 Livestock dung09 Other (specify)98		Main Source of drinking water (col 2) Piped water01 Protected well02 Protected/covered spring03 Unprotected Well04 Unprotected spring05 Surface water (lake/dam/river/stream)06 Covered rainwater catchment ...07 Uncovered rainwater catchment 08 Water Vendor09 Tanker truck10 Bottled water11 Borehole12 Other (Specify)98									
10.5 ACCESS TO TOILET FACILITIES						10.6 FOOD CONSUMPTION PATTERNS							
10.5.1 What type of toilet does your hh use <input type="checkbox"/>						10.6.1 Number of meals the hh normally has per day <input type="checkbox"/>							
Type of toilet No toilet/bush.....1 Improved pit latrine - hh owned.....4 Flush toilet2 Other type (specify)8 Pit latrine - traditional ...3						10.6.2 Number of days hh consumed meat last week <input type="checkbox"/>							
						10.6.3 Number of days hh consumed Fish last week <input type="checkbox"/>							
						10.6.4 How often did the hh have problems in satisfying the food needs of the hh last year? <input type="checkbox"/>							
10.7 SOURCE OF HOUSEHOLD INCOME						Problems satisfying hh food needs (row 10.6.4) Never1 Seldom2 Sometimes3 Often4 Always5							
10.7.1 What is the households main source of cash income? <input type="text"/>													
Source of Income codes Sale of food crops01 Wages or salaries in cash07 Sale of Livestock.....02 Other casual cash earnings ..08 Sale of livestock products ...03 Cash remittances09 Sale of cash crops.....04 Fishing10 Sale of forest products05 Other98 Business income.....06 Not applicable99													

End time:			Hour		min	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Definition and working page for page 16**Household facilities (Section 10):****Number of rooms used for sleeping in the household (Q 10.1.4)**

Include sitting room, dining room, kitchen, etc if used for sleeping. It also includes rooms outside the main dwelling

A room is defined as a space which is separate from the rest of the building by a permanent wall or division. A building/house that is not divided into rooms is considered to have one room.





Household assets (Q 10.2): these assets must be functioning. Do not include if broken.

Access to drinking water (Q 10.4): If there is more than one source, use the one, which the hh uses most frequently.

Main source of hh cash income Q10.7:

Activity that provides the hh with the most cash during 2007/08 agriculture year.

Average/maximum yields per area					Average/maximum yields per area				
Use this table to compare the yields calculated in Sections 5.1, 5.2 and 5.3.									
These stats are strictly to be used as a guide for the purpose of assisting to get the correct area and yields for each crop.									
Name of Crop	Kilogram/ha		Kilogram/acre		Name of Crop	Kilogram/ha		Kilogram/acre	
	Average	Max	Average	Max		Average	Max	Average	Max
11 Maize	1,150	6,250	466	2,530	86 Cabbage	20,000	50,000	8,097	20,243
12 Paddy	700	4,000	283	1,619	87 Tomatoes	25,000	60,000	10,121	24,291
13 Sorghum	750	3,500	304	1,417	88 Spinach	15,000	17,000	6,073	6,883
14 Bulrush Millet	350	3,000	142	1,215	89 Carrot	25,000	30,000	10,121	12,146
15 Fungur Millet	300	2,500	121	1,012	90 Pepper	3,500		1,417	0
16 Wheat	1,150	4,500	466	1,822	91 Amaranthus	20,000	40,000	8,097	16,194
17 Barley	1,400	1,800	567	729	92 Pumpkin	35,000	40,000	14,170	16,194
16 Cassava	3,000	7,000	1,215	2,834	93 Cucumber	5,000	10,000	2,024	4,049
17 Sweet potatoes	600	8,000	243	3,239	94 Egg plant	30,000	60,000	12,146	24,291
18 Irish potatoes	750	8,500	304	3,441	95 Water melon	10,000	20,000	4,049	8,097
19 Yams	4,000	10,000	466	1,822	96 Cauliflower	17,000	20,000	8,097	16,194
25 Coco yams	2,500	5,000	567	729	52 Cotton	800	25,000	14,170	16,194
26 Onions	30,000	50,000	1,215	2,834	54 Coffee	500	100	2,024	4,049
27 Ginger	20,000	30,000	243	3,239	55 Tea	2,500	10,000	12,146	24,291
31 Mahara Beans	400	1,300	304	3,441	56 Cocoa	150	1,000	4,049	8,097
32 Cow peas	300	1,750	121	709	57 Rubber	400	1,400	6,883	8,097
33 Green gram	1,500	1,800	1,012	2,024	58 Wattle			324	10,121
34 Pigeon peas	600	1,500	243	607	59 Kapok			0	0
35 Chick peas	500	1,500	202	607	60 Sugar cane	60,000	150,000	24,291	60,729
36 Bambara nuts	600	4,000	243	1,619	61 Cardamon	3,000		1,215	0
41 Sun flower	600	1,700	243	688	71 Banana	10,000	50,000	4,049	20,243
42 Simsim	300	1,000	121	405	72 Avocado			0	0
43 Gound nuts	600	4,000	243	1,619	73 Mango	10,000	25,000	4,049	10,121
47 Soyabeans	1,300	2,500	526	1,012	74 Pawpaw	50,000	70,000	20,243	28,340
48 Caster seeds	300	750	121	304	76 Orrage	15,000	40,000	6,073	16,194
75 Pineapple	25,000	60,000	10,121	24,291	77 Grape fruit	30,000	50,000	12,146	20,243
50 Cotton	300	1,500	121	607	78 Grapes	5,000	30,000	2,024	12,146
51 Tobacco	500	1,500	202	607	79 Mandarin	15,000	40,000	6,073	16,194
53 Pyrethrum			0	0	80 Quava	7,000	35,000	2,834	14,170
62 Jute	800	3,500	324	1,417	81 Plums			0	0
44 Palm oil	1,150	5,000	466	2,024	82 Tufaha		20,000	0	8,097
45 Cononut	1,500	8,000	607	3,239	83 Pea	15,000	27,000	6,073	10,931
46 Cashw nut	9	60/tree	4	24	84 Pitches	14,000	57,000	5,668	23,077
					66 Clove	4,500	5,000	1,772	1,969
					Black pepper	2,000	3,750		
					Mung'unye				
					Ocra	1,000	1,500		

ACQ 3	United Republic of Tanzania		CONFIDENTIAL	
				
				
Village/Community Level Formats Access to and Use of Community Resources Farming Gate Prices of commodities produced by the village				
			NUMBER OF FARMERS HH IN THE VIALLAGE <i>To be filled by the enumerator after completeing form ACLF2</i>	
Agricultural Sample Census 2007/2008			NUMBER OF HH MEMBERS <i>To be filled by the enumerator after completeing form ACLF2</i>	
Region	Ward	
District	Village	
Enumerator Name		Signature		
Date of Enumeration [] [] / [] [] / [] [] [] [] d d m m y y y y		Start Time [] [] : [] [] End Time [] [] : [] []		
Field level checking by:			<i>I To be filled by the supervisor ONLY after Field/farm level checking of the enumeration process. This should be countersigned by the Supervisor in front of the enumerator</i>	
District Supervisor	Name	Signature		Date .. / .. / ..
Regional Supervisor	Name	Signature		Date .. / .. / ..
National Supervisor	Name	Signature	Date .. / .. / ..	
District checking in Office			<i>All questionnaires must be checked at the district office.</i>	
District Supervisor	Name	Signature		Date .. / .. / ..
For Use at Regional Level Only			<i>See the back page for details of queries</i>	
Data entered by:	Name	Signature		Date .. / .. / ..
Queried	Name	Signature		Date .. / .. / ..
Ministry of Agricultrurte and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Administration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Governemnet of Zanzibar				

Average Seasonal Farm Gate Price Form							
Use key informants to provide answers to the following questions. Key informants can be the village chairman, village extension officer or knowledgeable member of community. Where possible ask these questions to a group in order to reach a consensus.							
Procedure: Administer this form after completing all smallholder questionnaires for the village.							
1. Copy the names of all crops from section 5.1, 5.2, & 5.3 in the smallholder questionnaire to column 1 of this form.							
2. Obtain an estimate of price per kg of these products under column 5, 6, 7 and 8.							
Crop name <i>(1)</i>	Crop Code <i>(2)</i>	Main Product name <i>(3)</i>	Main Product code <i>(4)</i>	Price per kg			
				End of Vuli <i>(5)</i>	End of Masika <i>(6)</i>	Annual Minimum <i>(7)</i>	Annual Maximum <i>(8)</i>
	□ □		□				
	□ □		□				
	□ □		□				
	□ □		□				
	□ □		□				
	□ □		□				
	□ □		□				
	□ □		□				
	□ □		□				
	□ □		□				
	□ □		□				
	□ □		□				
	□ □		□				
	□ □		□				
	□ □		□				
	□ □		□				

Main product code (Col 4)

Dry Grain.....1	Straw, dry stems etc4	Vegetables7
Green cob2	Root, tuber, etc5	Fruit8
Green leaves & Stem.....3	Flower eg pyrethrum6	Other (Specify).....9

Definition and working page**Question Specific Definitions**

Use key informants to provide answers to the questions in this booklet questions. Key informants can be the village chairman, village extension officer or knowledgeable member of community. Where possible ask these questions to a group in order to reach a consensus.

Question Specific Definitions:**Access to Communal Resources - Section 1.0**

Communal Resources: Resources in which the hh members have no individual claim to and which are shared by all the village.

Area of Communal Land: Official area demarcated by the village as shared/public land

Area of Squatting Farmers: area of official communal land on which individual hhs make sole claim to (eg for crop farming or fenced livestock etc)

Remaining available: Official area of communal land minus area of squatting farmers

Community tree planting scheme

Community Forest: A forest planted on the communal land which is planted, replanted or spot planted by the members of the village.

Plantation Planting: An area designated by the village for planting a block of trees.

Spot Planted: Replanting an area where selective logging has been carried out. A tree is planted to replace the one that has been cut.

Indigenous Trees: Trees that are native to Tanzania

Exotic Trees: Trees that are not native to Tanzania

Non Government Organisation: is managed by people from outside the village and it normally covers more than one village/District/Region. Its function is to provide development assistance to the farmer and is free from direct government links.

Village level organisation: is managed by members of the village. Its purpose is normally to access/provide development assistance to the village.

1.1	Does the village have an area set aside for communal resources eg forest, grazing, etc (Yes =1 No =2) <i>(If the response is no go to 1.2)</i>			<input type="checkbox"/>							
1.1	Area of Village Communal resource		Area in Acres								
1.1.1	Total Area of communal land		<input type="text"/>	Official figure from community leader							
1.1.2	Area of squatting farmers on communal land		<input type="text"/>	Key respondent (leader/extension/etc)							
1.1.3	Remaining available as communal resource		<input type="text"/>	Key respondent (leader/extension/etc)							
1.2 ACCESS AND USE OF COMMUNAL RESOURCES											
	Communal Resource <i>(1)</i>	Distance to resource (km)		Main hh use <i>(4)</i>							
		dry season <i>(2)</i>	wet season <i>(3)</i>								
1.2.1	Water for humans	<input type="text"/>	<input type="text"/>	<input type="text"/>							
1.2.2	Water for livestock	<input type="text"/>	<input type="text"/>	<input type="text"/>							
1.2.3	Communal Grazing	<input type="text"/>	<input type="text"/>	<input type="text"/>							
1.2.4	Communal Firewood	<input type="text"/>	<input type="text"/>	<input type="text"/>							
1.2.5	Wood for Charcoal	<input type="text"/>	<input type="text"/>	<input type="text"/>							
1.2.6	Building poles	<input type="text"/>	<input type="text"/>	<input type="text"/>							
1.2.7	Forest for bees (honey)	<input type="text"/>	<input type="text"/>	<input type="text"/>							
1.2.8	Hunting (animal products)	<input type="text"/>	<input type="text"/>	<input type="text"/>							
1.2.9	Fishing (Fish)	<input type="text"/>	<input type="text"/>	<input type="text"/>							
<div style="border: 1px solid black; padding: 5px;"> <p>Instructions for distance to resource (Col 2 and 3): Distance is from the centre of the village.</p> <p>If under 1km, write 0 If above 1km round to whole numbers eg 1.5km= 2km, 1.25km= 1km</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Main use (Col 4) Home or farm Consumption/utilisation...1 Sold to trader at the village.....2 Sold to village market3 Sold to local wholesale market.....4 Sold to major wholesale market5 Not available6</p> </div>											
2.0 COMMUNITY PLANTED TREES											
2.1	Does your village have a Community tree planting scheme (Yes=1, No=2) <i>If the response is 'NO' go to section 14.0</i>			<input type="checkbox"/>							
Details of the community tree planting scheme											
S/N	Distance to community planted forest (Km) <i>(1)</i>	Area of Community Forest (acr) <i>(2)</i>	Type of planting <i>(3)</i>	Type of trees <i>(4)</i>	Source of seeds/seedlings <i>(5)</i>	Number of years since planting started <i>(6)</i>	Main use during 2002/03 <i>(7)</i>	Main use of community forest revenue <i>(8)</i>			
2.2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
<div style="border: 1px solid black; padding: 5px;"> <p>Type of planting (Col 3) Plantation planting.....1 Spot planting2</p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p>Type of tree (Col 4) Indigenous.....1 exotic2 both3</p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p>Source of Seedlings (Col 5) Seeds collected and directly planted by village.....1 Village Nursery2 Department of forestry3 Private nursery4</p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p>Main Uses (Col 7) Poles1 Timber logs2 Charcoal3 Firewood4 Other Specify8</p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p>Main use of revenue (Col 8) Village development fund.1 household consumption...2 Household Income3</p> </div>			
3.0 Non Government Organisation (NGO) Contact					4.0 Community Based Organisation (CBO)						
3.1	Did an NGO visit the village during the year(Y=1,N=2) <i>(If no go to Section 4)</i>				<input type="checkbox"/>	4.1	Does the village have CBOs (Y=1, N=2) <i>(If no go to Section 5.1)</i>				<input type="checkbox"/>
S/N	Type of NGO	Visited Y=1, N=2	Number of visits	Distance to Office (km)	S/N	Type of NGO	In village Y=1, N=2				
3.1.1	Extension/Research NGO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	4.1.1	Extension/Research CBO	<input type="checkbox"/>				
3.1.2	Service/input provision NGO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	4.1.2	Service/input provision CBO	<input type="checkbox"/>				
3.1.3	Community development NGO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	4.1.3	Community development CBO	<input type="checkbox"/>				
3.1.4	Other NGO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	4.1.4	Other CBO	<input type="checkbox"/>				
5.1	Did the village have any on-farm trials (Yes = 1, No = 2)				<input type="checkbox"/>	5.2	Has there been an research prioritisation exercise (Yes = 1, No = 2)				<input type="checkbox"/>
5.3	Were there any blacksmith in this Village during agriculture year 2007/08? (Yes = 1, No = 2)				<input type="checkbox"/>	5.5	Were there any Oxen training centre in this Village during agriculture year 2007/08? (Yes = 1, No = 2)				<input type="checkbox"/>
5.4	Number of blacksmith in the Village			<input type="text"/>	5.6	Number of Oxen training centres in the Village			<input type="text"/>		